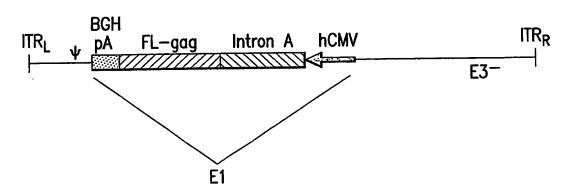
PCT/US03/07727

1/70

ORIGINAL ADENOVECTOR CONSTRUCT:

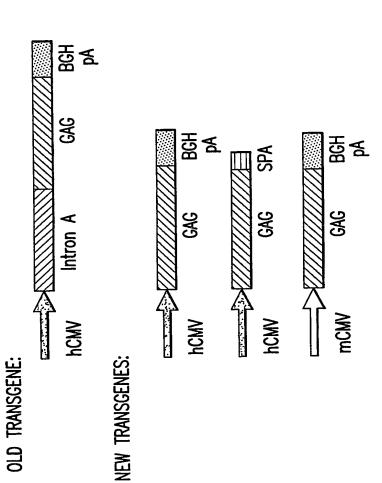


ORIGINAL HIV-1 gag ADENOVECTOR. FIG.1

Sequence of the open reading frame for FL-gag (human codon optimized)

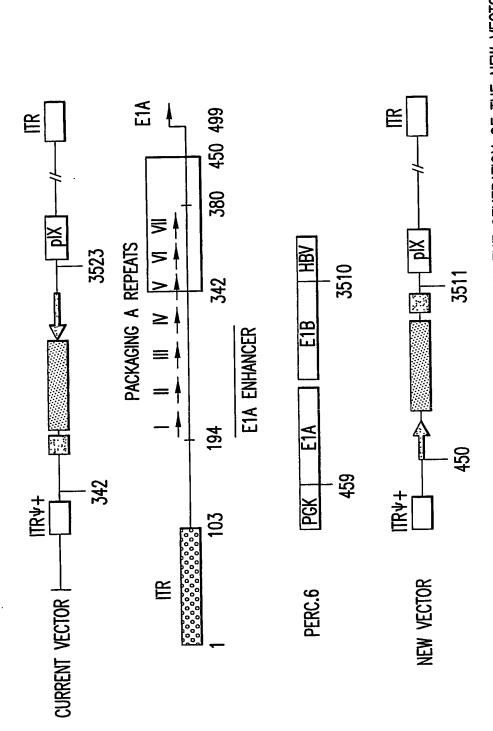
atgggtgctagggcttctgtgctgtctggtggtgagctggacaagtgggagaagatcaggctgaggcctggtggcaagaagaagtacaagctaaagcacattgtgtgggcctccagggagctggagaggtttgctgtgaaccctggc agctgaggtccctgtacaacacagtggctaccctgtactgtgtgcaccagaagattgatgtgaaggacaccaag gaggccctggagaagattgaggaggagcagaacaagtccaagaagaaggcccagcaggctgctgctggc acaggcaactccagccaggtgtcccagaactaccccattgtgcagaacctccagggccagatggtgcaccag gccatctcccccggaccctgaatgcctgggtgaaggtggtggaggagaaggccttctcccctgaggtgatccc catgttctctgccctgtctgagggtgccacccccaggacctgaacaccatgctgaacacagtggggggccatc aggctgccatgcagatgctgaaggagaccatcaatgaggaggctgctgagtgggacaggctgcatcctgtgc acgctggcccattgccccggccagatgagggagcccaggggctctgacattgctggcaccacctccaccct ccaggagcagattggctggatgaccaacaaccccccatccctgtgggggaaatctacaagaggtggatcat cccttcagggactatgtggacaggttctacaagaccctgagggctgagcaggcctcccaggaggtgaagaact ggatgacagagaccctgctggtgcagaatgccaaccctgactgcaagaccatcctgaaggccctgggccctg ctgccaccctggaggagatgatgacagcctgccagggggtggggggccctggtcacaaggccagggtgctg gctgaggccatgtcccaggtgaccaactccgccaccatcatgatgcagaggggcaacttcaggaaccagag gaagacagtgaagtgcttcaactgtggcaaggtgggccacattgccaagaactgtagggcccccaggaaga ggcaaaatctggcctcccacaagggcaggcctggcaacttcctccagtccaggcctgagcccacagcccct agctgtacccctggcctcctgaggtccctgtttggcaacgacccctcctcccagtaaaataaagcccgggca gat

FIG.2



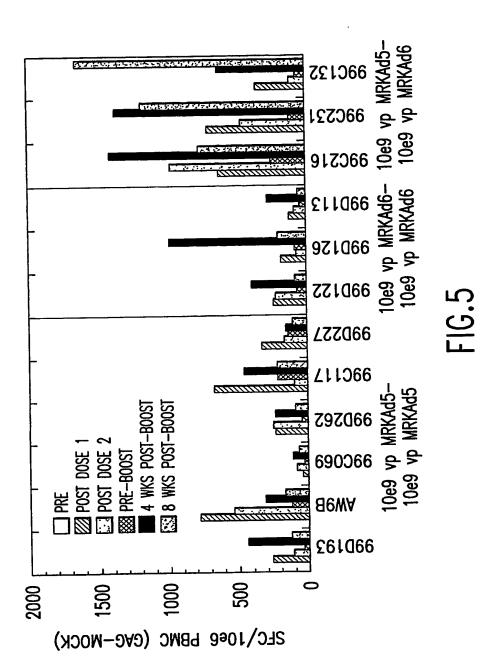
DIAGRAMMATIC REPRESENTATION OF THE ORIGINAL HIV-1 GAG TRANSGENE AND THE SERIES OF NEW TRANSGENE CONSTRUCTIONS.

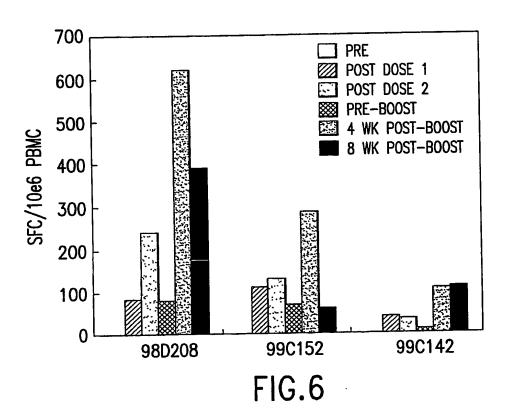
FIG.3



MODIFICATIONS MADE TO THE CURRENT ADENOVECTOR BACKBONE IN THE GENERATION OF THE NEW VECTOR.

FIG.4





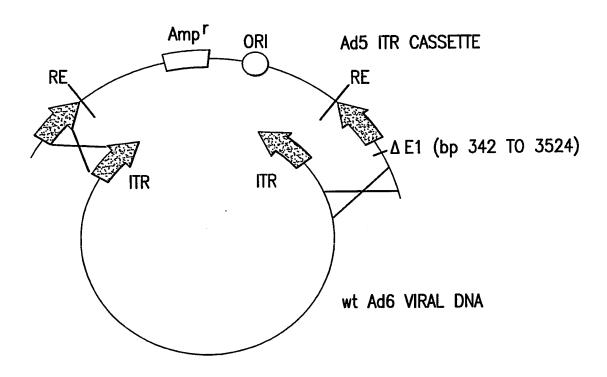
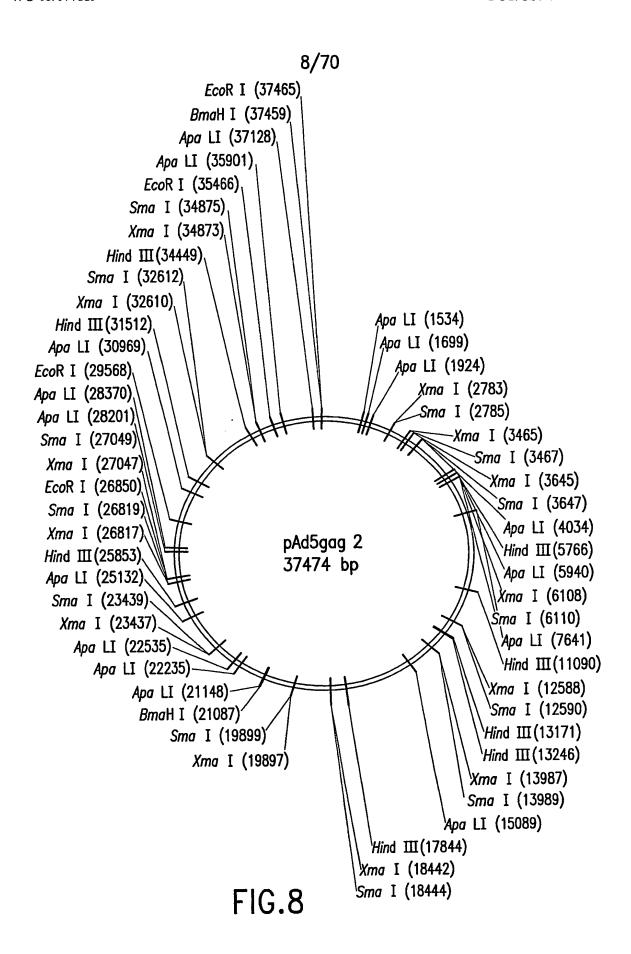


FIG.7



PacI TTCTTAATTA ACATCATCAA TAATATACCT TATTTTGGAT TGAAGCCAAT AAGAATTAAT TGTAGTAGTT ATTATATGGA ATAAAACCTA ACTTCGGTTA 51 ATGATAATGA GGGGGTGGAG TTTGTGACGT GGCGCGGGGC GTGGGAACGG TACTATTACT CCCCCACCTC AAACACTGCA CCGCGCCCCG CACCCTTGCC 101 GGCGGGTGAC GTAGTAGTGT GGCGGAAGTG TGATGTTGCA AGTGTGGCGG CCGCCCACTG CATCATCACA CCGCCTTCAC ACTACAACGT TCACACCGCC AACACATGTA AGCGACGGAT GTGGCAAAAG TGACGTTTTT GGTGTGCGCC 151 TTGTGTACAT TCGCTGCCTA CACCGTTTTC ACTGCAAAAA CCACACGCGG 201 GGTGTACACA GGAAGTGACA ATTITCGCGC GGTTTTAGGC GGATGTTGTA CCACATGTGT CCTTCACTGT TAAAAGCGCG CCAAAATCCG CCTACAACAT 251 GTAAATTTGG GCGTAACCGA GTAAGATTTG GCCATTTTCG CGGGAAAACT CATTTAAACC CGCATTGGCT CATTCTAAAC CGGTAAAAGC GCCCTTTTGA 301 GAATAAGAGG AAGTGAAATC TGAATAATTT TGTGTTACTC ATAGCGCGTA CTTATTCTCC TTCACTITAG ACTTATTAAA ACACAATGAG TATCGCGCAT 351 ATATTTGTCT AGGGCCGCGG GGACTTTGAC CGTTTACGTG GAGACTCGCC TATAAACAGA TCCCGGCGCC CCTGAAACTG GCAAATGCAC CTCTGAGCGG 401 CAGGTGTTTT TCTCAGGTGT TTTCCGCGTT CCGGGTCAAA GTTGGCGTTT GTCCACAAAA AGAGTCCACA AAAGGCGCAA GGCCCAGTTT CAACCGCAAA 451 TATTATTATA GGCGGCCGCG ATCCATTGCA TACGTTGTAT CCATATCATA ATAATAATAT CCGCCGGCGC TAGGTAACGT ATGCAACATA GGTATAGTAT 501 ATATGTACAT TTATATTGGC TCATGTCCAA CATTACCGCC ATGTTGACAT TATACATGTA AATATAACCG AGTACAGGTT GTAATGGCGG TACAACTGTA TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA 551 ACTAATAACT GATCAATAAT TATCATTAGT TAATGCCCCA GTAATCAAGT TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCGC 601 ATCGGGTATA TACCTCAAGG CGCAATGTAT TGAATGCCAT TTACCGGGCG 651 CTGGCTGACC GCCCAACGAC CCCCGCCCAT TGACGTCAAT AATGACGTAT GACCGACTGG CGGGTTGCTG GGGGCGGGTA ACTGCAGTTA TTACTGCATA 701 GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA CAAGGGTATC ATTGCGGTTA TCCCTGAAAG GTAACTGCAG TTACCCACCT 751 GTATTTACGG TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CATAAATGCC ATTTGACGGG TGAACCGTCA TGTAGTTCAC ATAGTATACG

| 801 | CAAGTACGCC C | CCTATTGAC | GTCAATGACG | GTAAATGGCC | CGCCTGGCAT |
|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | GTTCATGCGG G | GGGATAACTG | CAGTTACTGC | CATTTACCGG | GCGGACCGTA |
| 851 | TATGCCCAGT A | CATGACCTT | ATGGGACTTT | CCTACTTGGC | AGTACATCTA |
| | ATACGGGTCA T | GTACTGGAA | TACCCTGAAA | GGATGAACCG | TCATGTAGAT |
| 901 | CGTATTAGTC A | TCGCTATTA | CCATGGTGAT | GCGGTTTTGG | CAGTACATCA |
| | GCATAATCAG T | AGCGATAAT | GGTACCACTA | CGCCAAAACC | GTCATGTAGT |
| 951 | ATGGGCGTGG A | ATAGCGGTTT FATCGCCAAA | GACTCACGGG CTGAGTGCCC | GATTTCCAAG CTAAAGGTTC | TCTCCACCCC AGAGGTGGGG |
| 1001 | ATTGACGTCA A | ATGGGAGTTT FACCCTCAAA | GTTTTGGCAC CAAAACCGTG | CAAAATCAAC GTTTTAGTTG | GGGACTTTCC CCCTGAAAGG |
| 1051 | AAAATGTCGT A | AACAACTCCG FTGTTGAGGC | CCCCATTGAC GGGGTAACTG | GCAAATGGGC CGTTTACCCG | GGTAGGCGTG CCATCCGCAC |
| 1101 | TACGGTGGGA (| GGTCTATATA CCAGATATAT | AGCAGAGCTC TCGTCTCGAG | GTTTAGTGAA CAAATCACTT | CCGTCAGATC GGCAGTCTAG |
| 1151 | GCCTGGAGAC (CGGACCTCTG (| GCCATCCACG CGGTAGGTGC | CTGTTTTGAC GACAAAACTG | CTCCATAGAA GAGGTATCTT | GACACCGGGA CTGTGGCCCT |
| 1201 | CCGATCCAGC (GGCTAGGTCG (| CTCCGCGGCC GAGGCGCCGG | GGGAACGGTG CCCTTGCCAC | CATTGGAACG GTAACCTTGC | CGGATTCCCC GCCTAAGGGG |
| 1251 | GTGCCAAGAG | TGAGATCTAC | CATGGGTGCT | AGGGCTTCTG | TGCTGTCTGG |
| | CACGGTTCTC | ACTCTAGATG | GTACCCACGA | TCCCGAAGAC | ACGACAGACC |
| 1301 | TGGTGAGCTG (| GACAAGTGGG CTGTTCACCC | AGAAGATCAG TCTTCTAGTC | GCTGAGGCCT CGACTCCGGA | GGTGGCAAGA CCACCGTTCT |
| 1351 | AGAAGTACAA | GCTAAAGCAC | ATTGTGTGGG | CCTCCAGGGA | GCTGGAGAGG |
| | TCTTCATGTT | CGATTTCGTG | TAACACACCC | GGAGGTCCCT | CGACCTCTCC |
| 1401 | TTTGCTGTGA | ACCCTGGCCT | GCTGGAGACC | TCTGAGGGGT | GCAGGCAGAT |
| | AAACGACACT | TGGGACCGGA | CGACCTCTGG | AGACTCCCCA | CGTCCGTCTA |
| 1451 | CCTGGGCCAG | CTCCAGCCCT | CCCTGCAAAC | AGGCTCTGAG | GAGCTGAGGT |
| | GGACCCGGTC | GAGGTCGGGA | GGGACGTTTG | TCCGAGACTC | CTCGACTCCA |
| 1501 | CCCTGTACAA | CACAGTGGCT | ACCCTGTACT | GTGTGCACCA | GAAGATTGAT |
| | GGGACATGTT | GTGTCACCGA | TGGGACATGA | CACACGTGGT | CTTCTAACTA |
| 1551 | GTGAAGGACA | CCAAGGAGGC | CCTGGAGAAG | ATTGAGGAGG | AGCAGAACAA |
| | CACTTCCTGT | GGTTCCTCCG | GGACCTCTTC | TAACTCCTCC | TCGTCTTGTT |
| 1601 | GTCCAAGAAG | AAGGCCCAGC | AGGCTGCTGC | TGGCACAGGC | AACTCCAGCC |
| | CAGGTTCTTC | TTCCGGGTCG | TCCGACGACG | ACCGTGTCCG | TTGAGGTCGG |

| 1651 | AGGTGTCCCA (TCCACAGGGT (| GAACTACCCC CTTGATGGGG | ATTGTGCAGA TAACACGTCT | ACCTCCAGGG TGGAGGTCCC | CCAGATGGTG GGTCTACCAC |
|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1701 | CACCAGGCCA | TCTCCCCCG | GACCCTGAAT | GCCTGGGTGA | AGGTGGTGGA |
| | GTGGTCCGGT | AGAGGGGGGC | CTGGGACTTA | CGGACCCACT | TCCACCACCT |
| 1751 | GGAGAAGGCC | TTCTCCCCTG | AGGTGATCCC | CATGTTCTCT | GCCCTGTCTG |
| | CCTCTTCCGG | AAGAGGGGAC | TCCACTAGGG | GTACAAGAGA | CGGGACAGAC |
| 1801 | AGGGTGCCAC | CCCCCAGGAC | CTGAACACCA | TGCTGAACAC | AGTGGGGGGC |
| | TCCCACGGTG | GGGGGTCCTG | GACTTGTGGT | ACGACTTGTG | TCACCCCCG |
| 1851 | CATCAGGCTG | CCATGCAGAT | GCTGAAGGAG | ACCATCAATG | AGGAGGCTGC |
| | GTAGTCCGAC | GGTACGTCTA | CGACTTCCTC | TGGTAGTTAC | TCCTCCGACG |
| 1901 | TGAGTGGGAC | AGGCTGCATC | CTGTGCACGC | TGGCCCCATT | GCCCCCGGCC |
| | ACTCACCCTG | TCCGACGTAG | GACACGTGCG | ACCGGGGTAA | CGGGGGCCGG |
| 1951 | AGATGAGGGA | GCCCAGGGGC | TCTGACATTG | CTGGCACCAC | CTCCACCCTC |
| | TCTACTCCCT | CGGGTCCCCG | AGACTGTAAC | GACCGTGGTG | GAGGTGGGAG |
| 2001 | CAGGAGCAGA | TTGGCTGGAT | GACCAACAAC | CCCCCCATCC | CTGTGGGGGA |
| | GTCCTCGTCT | AACCGACCTA | CTGGTTGTTG | GGGGGGTAGG | GACACCCCCT |
| 2051 | AATCTACAAG | AGGTGGATCA | TCCTGGGCCT | GAACAAGATT | GTGAGGATGT |
| | TTAGATGTTC | TCCACCTAGT | AGGACCCGGA | CTTGTTCTAA | CACTCCTACA |
| 2101 | ACTCCCCCAC | CTCCATCCTG | GACATCAGGC | AGGGCCCCAA | GGAGCCCTTC |
| | TGAGGGGGTG | GAGGTAGGAC | CTGTAGTCCG | TCCCGGGGTT | CCTCGGGAAG |
| 2151 | AGGGACTATG | TGGACAGGTT | CTACAAGACC | CTGAGGGCTG | AGCAGGCCTC |
| | TCCCTGATAC | ACCTGTCCAA | GATGTTCTGG | GACTCCCGAC | TCGTCCGGAG |
| 2201 | CCAGGAGGTG | AAGAACTGGA | TGACAGAGAC | CCTGCTGGTG | CAGAATGCCA |
| | GGTCCTCCAC | TTCTTGACCT | ACTGTCTCTC | GGACGACCAC | GTCTTACGGT |
| 2251 | ACCCTGACTG | CAAGACCATC | CTGAAGGCCC | TGGGCCCTGC | TGCCACCCTG |
| | TGGGACTGAC | GTTCTGGTAG | GACTTCCGGC | ACCCGGGACG | ACGGTGGGAC |
| 2301 | GAGGAGATGA | TGACAGCCTG | CCAGGGGGTG | G GGGGGCCCTG | GTCACAAGGC |
| | CTCCTCTACT | ACTGTCGGAC | GGTCCCCCAC | CCCCCGGGAC | CAGTGTTCCG |
| 2351 | CAGGGTGCTG | GCTGAGGCCA | TGTCCCAGGT | T GACCAACTCO | GCCACCATCA |
| | GTCCCACGAC | CGACTCCGGT | ACAGGGTCCA | A CTGGTTGAGO | GCGGTGGTAGT |
| 2401 | TGATGCAGAG | GGGCAACTTC | AGGAACCAGA | A GGAAGACAGT | GAAGTGCTTC |
| | ACTACGTCTC | CCCGTTGAAC | TCCTTGGTC | T CCTTCTGTCA | CTTCACGAAG |
| 2451 | AACTGTGGCA | AGGTGGGCCA | A CATTGCCAA(| G AACTGTAGGO | G CCCCCAGGAA |
| | TTGACACCGT | TCCACCCGG | F GTAACGGTT(| C TTGACATCCO | C GGGGGTCCTT |

| 2501 | GAAGGGCTGC | TGGAAGTGTG | GCAAGGAGGG | CCACCAGATG | AAGGACTGCA |
|--------|--------------------------|--------------------------|---|--------------------------|---------------------------|
| | CTTCCCGACG | ACCTTCACAC | CGTTCCTCCC | GGTGGTCTAC | TTCCTGACGT |
| 2551 | ATGAGAGGCA | GGCCAACTTC | CTGGGCAAAA | TCTGGCCCTC | CCACAAGGGC |
| | TACTCTCCGT | CCGGTTGAAG | GACCCGTTTT | AGACCGGGAG | GGTGTTCCCG |
| 2601 | AGGCCTGGCA | ACTTCCTCCA | GTCCAGGCCT | GAGCCCACAG | CCCCTCCCGA |
| | TCCGGACCGT | TGAAGGAGGT | CAGGTCCGGA | CTCGGGTGTC | GGGGAGGGCT |
| 2651 | GGAGTCCTTC | AGGTTTGGGG | AGGAGAAGAC | CACCCCCAGC | CAGAAGCAGG |
| | CCTCAGGAAG | TCCAAACCCC | TCCTCTTCTG | GTGGGGGTCG | GTCTTCGTCC |
| 2701 | AGCCCATTGA | CAAGGAGCTG | TACCCCCTGG | CCTCCCTGAG | GTCCCTGTTT |
| | TCGGGTAACT | GTTCCTCGAC | ATGGGGGACC | GGAGGGACTC | CAGGGACAAA |
| 2751 · | GGCAACGACC | CCTCCTCCCA | GTAAAATAAA | GCCCGGGCAG | ATCTGCTGTG |
| | CCGTTGCTGG | GGAGGAGGGT | CATTTTATTT | CGGGCCCGTC | TAGACGACAC |
| 2801 | CCTTCTAGTT | GCCAGCCATC | TGTTGTTTGC | CCCTCCCCG | TGCCTTCCTT |
| | GGAAGATCAA | CGGTCGGTAG | ACAACAAACG | GGGAGGGGGC | ACGGAAGGAA |
| 2851 | GACCCTGGAA | GGTGCCACTC | CCACTGTCCT | TTCCTAATAA | AATGAGGAAA |
| | CTGGGACCTT | CCACGGTGAG | GGTGACAGGA | AAGGATTATT | TTACTCCTTT |
| 2901 | TTGCATCGCA | TTGTCTGAGT | AGGTGTCATT | CTATTCTGGG | GGGTGGGGTG |
| | AACGTAGCGT | AACAGACTCA | TCCACAGTAA | GATAAGACCC | CCCACCCCAC |
| 2951 | GGGCAGGACA CCCGTCCTGT | GCAAGGGGGA CGTTCCCCCT | GGATTGGGAA CCTAACCCTT | GACAATAGCA CTGTTATCGT | GGCATGCTGG |
| 3001 | GGATGCGGTG | GGCTCTATGG | CCGATCGGCG | CGCCGTACTG | AAATGTGTGG |
| | CCTACGCCAC | CCGAGATACC | GGCTAGCCGC | GCGGCATGAC | TTTACACACC |
| 3051 | GCGTGGCTTA | AGGGTGGGAA | AGAATATATA | AGGTGGGGGT | CTTATGTAGT |
| | CGCACCGAAT | TCCCACCCTT | TCTTATATATAT | TCCACCCCCA | GAATACATCA |
| 3101 | TTTGTATCTG AAACATAGAC | TTTTGCAGCA AAAACGTCGT | CGGCGGCGCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGG | CCATGAGCAC GGTACTCGTG | CAACTCGTTT GTTGAGCAAA |
| 3151 | GATGGAAGCA | TTGTGAGCTC | ATATTTGACA | ACGCGCATGC | CCCCATGGGC |
| | CTACCTTCGT | AACACTCGAG | TATAAACTGT | TGCGCGTACG | GGGGTACCCG |
| 3201 | GCCCCACGCA | GTCTTACACT | r ACCCGAGGTC | C GTAACTACCA | CGCCCCGTCC CGCGGGGCAGG |
| 3251 | ACGGGCGTTT | GAGATGATG | S AACTGGATG(| C TO I GGCACAG | TGGAACGCCG ACCTTGCGGC |
| 3301 | TTGGAGACTG | CAGCCTCCGC | C CGCCGCTTCA | A GCCGCTGCA(| G CCACCGCCCG |
| | AACCTCTGAG | GTCGGAGGCC | G GCGGCGAAGT | F CGGCGACGT(| C GGTGGCGGGC |

FIG.9A-4

| 3351 | CGGGATTGTG ACTGACTTTG CTTTCCTGAG CCCGCTTGCA AACAGTGCAG GCCCTAACAC TGACTGAAAC GAAAGGACTC GGGCGAACGT TTGTCACGTC |
|------|--|
| 3401 | CTTCCCGTTC ATCCGCCCGC GATGACAAGT TGACGGCTCT TTTGGCACAA GAAGGGCAAG TAGGCGGGCG CTACTGTTCA ACTGCCGAGA AAACCGTGTT |
| 3451 | TTGGATTCTT TGACCCGGGA ACTTAATGTC GTTTCTCAGC AGCTGTTGGA AACCTAAGAA ACTGGGCCCT TGAATTACAG CAAAGAGTCG TCGACAACCT |
| 3501 | TCTGCGCCAG CAGGTTTCTG CCCTGAAGGC TTCCTCCCCT CCCAATGCGG AGACGCGGTC GTCCAAAGAC GGGACTTCCG AAGGAGGGGA GGGTTACGCC |
| 3551 | TTTAAAACAT AAATAAAAAA CCAGACTCTG TTTGGATTTG GATCAAGCAA AAATTTTGTA TTTATTTTTT GGTCTGAGAC AAACCTAAAC CTAGTTCGTT |
| 3601 | GTGTCTTGCT GTCTTTATTT AGGGGTTTTG CGCGCGCGGT AGGCCCGGGA CACAGAACGA CAGAAATAAA TCCCCAAAAC GCGCGCGCA TCCGGGCCCT |
| 3651 | CCAGCGGTCT CGGTCGTTGA GGGTCCTGTG TATTTTTTCC AGGACGTGGT GGTCGCCAGA GCCAGCAACT CCCAGGACAC ATAAAAAAGG TCCTGCACCA |
| 3701 | AAAGGTGACT CTGGATGTTC AGATACATGG GCATAAGCCC GTCTCTGGGG TTTCCACTGA GACCTACAAG TCTATGTACC CGTATTCGGG CAGAGACCCC |
| 3751 | TGGAGGTAGC ACCACTGCAG AGCTTCATGC TGCGGGGTGG TGTTGTAGAT ACCTCCATCG TGGTGACGTC TCGAAGTACG ACGCCCCACC ACAACATCTA |
| 3801 | GATCCAGTCG TAGCAGGAGC GCTGGGCGTG GTGCCTAAAA ATGTCTTTCA CTAGGTCAGC ATCGTCCTCG CGACCCGCAC CACGGATTTT TACAGAAAGT |
| 3851 | GTAGCAAGCT GATTGCCAGG GGCAGGCCCT TGGTGTAAGT GTTTACAAAG CATCGTTCGA CTAACGGTCC CCGTCCGGGA ACCACATTCA CAAATGTTTC |
| 3901 | CGGTTAAGCT GGGATGGGTG CATACGTGGG GATATGAGAT GCATCTTGGA GCCAATTCGA CCCTACCCAC GTATGCACCC CTATACTCTA CGTAGAACCT |
| 3951 | CTGTATTITT AGGTTGGCTA TGTTCCCAGC CATATCCCTC CGGGGATTCA GACATAAAAA TCCAACCGAT ACAAGGGTCG GTATAGGGAG GCCCCTAAGT |
| 4001 | TGTTGTGCAG AACCACCAGC ACAGTGTATC CGGTGCACTT GGGAAATTTG ACAACACGTC TTGGTGGTCG TGTCACATAG GCCACGTGAA CCCTTTAAAC |
| 4051 | TCATGTAGCT TAGAAGGAAA TGCGTGGAAG AACTTGGAGA CGCCCTTGTG AGTACATCGA ATCTTCCTTT ACGCACCTTC TTGAACCTCT GCGGGAACAC |
| 4101 | ACCTCCAAGA TTTTCCATGC ATTCGTCCAT AATGATGGCA ATGGGCCCAC TGGAGGTTCT AAAAGGTACG TAAGCAGGTA TTACTACCGT TACCCGGGTG |
| 4151 | GGGCGGCGC CTGGGCGAAG ATATTTCTGG GATCACTAAC GTCATAGTTG CCCGCCGCCG GACCCGCTTC TATAAAGACC CTAGTGATTG CAGTATCAAC |

| 4201 | TGTTCCAGGA TGAGATCGTC ATAGGCCATT TTTACAAAGC GCGGGCGCACACAAGGTCCT ACTCTAGCAG TATCCGGTAA AAATGTTTCG CGCCCGCC | AG CTC |
|------|---|--------------|
| 4251 | GGTGCCAGAC TGCGGTATAA TGGTTCCATC CGGCCCAGGG GCGTAGT CCACGGTCTG ACGCCATATT ACCAAGGTAG GCCGGGTCCC CGCATCAA | TAC ATG |
| 4301 | CCTCACAGAT TTGCATTTCC CACGCTTTGA GTTCAGATGG GGGGATCAGGAGTGTCTA AACGTAAAGG GTGCGAAACT CAAGTCTACC CCCCTAG | ATG TAC |
| 4351 | TCTACCTGCG GGGCGATGAA GAAAACGGTT TCCGGGGTAG GGGAGATGAGAT | CAG GTC |
| 4401 | CTGGGAAGAA AGCAGGTTCC TGAGCAGCTG CGACTTACCG CAGCCGG GACCCTTCTT TCGTCCAAGG ACTCGTCGAC GCTGAATGGC GTCGGCC | TGG ACC |
| 4451 | GCCCGTAAAT CACACCTATT ACCGGCTGCA ACTGGTAGTT AAGAGAG CGGGCATTTA GTGTGGATAA TGGCCGACGT TGACCATCAA TTCTCTC | CTG GAC |
| 4501 | CAGCTGCCGT CATCCCTGAG CAGGGGGGCC ACTTCGTTAA GCATGTCGTCGACGGCA GTAGGGACTC GTCCCCCGG TGAAGCAATT CGTACAG | CCT GGA |
| 4551 | GACTCGCATG TTTTCCCTGA CCAAATCCGC CAGAAGGCGC TCGCCGCCTGAGCGTAC AAAAGGGACT GGTTTAGGCG GTCTTCCGCG AGCGGCG | CCA GGT |
| 4601 | GCGATAGCAG TTCTTGCAAG GAAGCAAAGT TTTTCAACGG TTTGAGACGCTATCGTC AAGAACGTTC CTTCGTTTCA AAAAGTTGCC AAACTCT | CCG GGC |
| 4651 | TCCGCCGTAG GCATGCTTTT GAGCGTTTGA CCAAGCAGTT CCAGGCGAGCGCATC CGTACGAAAA CTCGCAAACT GGTTCGTCAA GGTCCGC | GTC CAG |
| 4701 | CCACAGCTCG GTCACCTGCT CTACGGCATC TCGATCCAGC ATATCTCGGTGTCGAGC CAGTGGACGA GATGCCGTAG AGCTAGGTCG TATAGAC | CCTC GGAG |
| 4751 | GTTTCGCGGG TTGGGGCGGC TTTCGCTGTA CGGCAGTAGT CGGTGCTCAAAGCGCCC AACCCCGCCG AAAGCGACAT GCCGTCATCA GCCACG/ | TCGT AGCA |
| 4801 | CCAGACGGGC CAGGGTCATG TCTTTCCACG GGCGCAGGGT CCTCGTCGGTCTCCCG GTCCCAGTAC AGAAAGGTGC CCGCGTCCCA GGAGCAC | CAGC GTCG |
| 4851 | GTAGTCTGGG TCACGGTGAA GGGGTGCGCT CCGGGCTGCG CGCTGGCCATCAGACCC AGTGCCACTT CCCCACGCGA GGCCCGACGC GCGACCC | CCAG GGTC |
| 4901 | GGTGCGCTTG AGGCTGGTCC TGCTGGTGCT GAAGCGCTGC CGGTCT CCACGCGAAC TCCGACCAGG ACGACCACGA CTTCGCGACG GCCAGA | TCGC AGCG |
| 4951 | CCTGCGCGTC GGCCAGGTAG CATTTGACCA TGGTGTCATA GTCCAG GGACGCGCAG CCGGTCCATC GTAAACTGGT ACCACAGTAT CAGGTC | CCCC GGGG |
| 5001 | TCCGCGGCGT GGCCCTTGGC GCGCAGCTTG CCCTTGGAGG AGGCGC AGGCGCCGCA CCGGGAACCG CGCGTCGAAC GGGAACCTCC TCCGCG | CGCA GCGT |

| 5051 | CGAGGGGCAG | TGCAGACTTT | TGAGGGCGTA | GAGCTTGGGC | GCGAGAAATA |
|------|-------------------------|-----------------------------|--------------|------------------------------|------------------------------|
| | GCTCCCCGTC | ACGTCTGAAA | ACTCCCGCAT | CTCGAACCCG | CGCTCTTTAT |
| 5101 | CCGATTCCGG | GGAGTAGGCA | TCCGCGCCGC | AGGCCCCGCA | GACGGTCTCG |
| | GGCTAAGGCC | CCTCATCCGT | AGGCGCGGCG | TCCGGGGCGT | CTGCCAGAGC |
| 5151 | CATTCCACGA | GCCAGGTGAG | CTCTGGCCGT | TCGGGGTCAA | AAACCAGGTT |
| | GTAAGGTGCT | CGGTCCACTC | GAGACCGGCA | AGCCCCAGTT | TTTGGTCCAA |
| 5201 | TCCCCCATGC | TTTTTGATGC | GTTTCTTACC | TCTGGTTTCC | ATGAGCCGGT |
| | AGGGGGTACG | AAAAACTACG | CAAAGAATGG | AGACCAAAGG | TACTCGGCCA |
| 5251 | GTCCACGCTC | GGTGACGAAA | AGGCTGTCCG | TGTCCCCGTA | TACAGACTTG |
| | CAGGTGCGAG | CCACTGCTTT | TCCGACAGGC | ACAGGGGCAT | ATGTCTGAAC |
| 5301 | AGAGGCCTGT | CCTCGAGCGG | TGTTCCGCGG | TCCTCCTCGT | ATAGAAACTC |
| | TCTCCGGACA | GGAGCTCGCC | ACAAGGCGCC | AGGAGGAGCA | TATCTTTGAG |
| 5351 | GGACCACTCT | GAGACAAAGG | CTCGCGTCCA | GGCCAGCACG | AAGGAGGCTA |
| | CCTGGTGAGA | CTCTGTTTCC | GAGCGCAGGT | CCGGTCGTGC | TTCCTCCGAT |
| 5401 | AGTGGGAGGG | GTAGCGGTCG | TTGTCCACTA | GGGGGTCCAC | TCGCTCCAGG |
| | TCACCCTCCC | CATCGCCAGC | AACAGGTGAT | CCCCCAGGTG | AGCGAGGTCC |
| 5451 | GTGTGAAGAC | ACATGTCGCC | CTCTTCGGCA | TCAAGGAAGG | TGATTGGTTT |
| | CACACTTCTG | TGTACAGCGG | GAGAAGCCGT | AGTTCCTTCC | ACTAACCAAA |
| 5501 | GTAGGTGTAG | GCCACGTGAC | CGGGTGTTCC | TGAAGGGGGG | CTATAAAAGG |
| | CATCCACATO | CCGGTGCACTG | GGCCCACAAGG | ACTTCCCCCC | GATATTTTCC |
| 5551 | GGGTGGGGG | GCGTTCGTCC | TCACTCTCTT | r ccgcatcgct | GTCTGCGAGG |
| | CCCACCCCC | GCGCAAGCAGG | G AGTGAGAGA/ | A ggcgtagcga | CAGACGCTCC |
| 5601 | GCCAGCTGT | T GGGGTGAGTA | A CTCCCTCTG/ | A AAAGCGGGCA | TGACTTCTGC |
| | CGGTCGACA/ | A CCCCACTCAT | C GAGGGAGACT | T TTTCGCCCGT | ACTGAAGACG |
| 5651 | GCTAAGATT(| G TCAGTTTCC/ | A AAAACGAGG/ | A GGATTTGATA | TTCACCTGGC |
| | CGATTCTAA(| C AGTCAAAGG | T TTTTGCTCC | T CCTAAACTAT | AAGTGGACCG |
| 5701 | CCGCGGTGAT GGCGCCACT | T GCCTTTGAG(A CGGAAACTC | G GTGGCCGCAT | T CCATCTGGT(A GGTAGACCA(| AGAAAAGACA TCTTTTCTGT |
| 5751 | ATCTTTTG | T TGTCAAGCT | T GGTGGCAAA | C GACCCGTAG/ | A GGGCGTTGGA |
| | TAGAAAAAC | A ACAGTTCGA | A CCACCGTTT | G CTGGGCATC | F CCCGCAACCT |
| 5801 | GTCGTTGAA | C CGCTACCTC | G CGTCCCAAA | C CAAAAACAG | G CGATCGGCGC C GCTAGCCGCG |
| 5851 | GCTCCTTGG | C CGCGATGTT | T AGCTGCACG | T ATTCGCGCG | C AACGCACCGC |
| | CGAGGAACC | G GCGCTACAA | A TCGACGTGC | A TAAGCGCGC | G TTGCGTGGCG |
| | | | | | |

| 5901 | CATTCGGGAA | AGACGGTGGT | GCGCTCGTCG | GGCACCAGGT | GCACGCGCCA |
|------|------------|--------------------------|-------------|------------|------------|
| | GTAAGCCCTT | TCTGCCACCA | CGCGAGCAGC | CCGTGGTCCA | CGTGCGCGGT |
| 5951 | ACCGCGGTTG | TGCAGGGTGA | CAAGGTCAAC | GCTGGTGGCT | ACCTCTCCGC |
| | TGGCGCCAAC | ACGTCCCACT | GTTCCAGTTG | CGACCACCGA | TGGAGAGGCG |
| 6001 | GTAGGCGCTC | GTTGGTCCAG | CAGAGGCGGC | CGCCCTTGCG | CGAGCAGAAT |
| | CATCCGCGAG | CAACCAGGTC | GTCTCCGCCG | GCGGGAACGC | GCTCGTCTTA |
| 6051 | GGCGGTAGGG | GGTCTAGCTG | CGTCTCGTCC | GGGGGGTCTG | CGTCCACGGT |
| | CCGCCATCCC | CCAGATCGAC | GCAGAGCAGG | CCCCCCAGAC | GCAGGTGCCA |
| 6101 | AAAGACCCCG | GGCAGCAGGC | GCGCGTCGAA | GTAGTCTATC | TTGCATCCTT |
| | TTTCTGGGGC | CCGTCGTCCG | CGCGCAGCTT | CATCAGATAG | AACGTAGGAA |
| 6151 | GCAAGTCTAG | CGCCTGCTGC | CATGCGCGGG | CGGCAAGCGC | GCGCTCGTAT |
| | CGTTCAGATC | GCGGACGACG | GTACGCGCCC | GCCGTTCGCG | CGCGAGCATA |
| 6201 | GGGTTGAGTG | GGGGACCCCA | TGGCATGGGG | TGGGTGAGCG | CGGAGGCGTA |
| | CCCAACTCAC | CCCCTGGGGT | ACCGTACCCC | ACCCACTCGC | GCCTCCGCAT |
| 6251 | CATGCCGCAA | ATGTCGTAAA | CGTAGAGGGG | CTCTCTGAGT | ATTCCAAGAT |
| | GTACGGCGTT | TACAGCATTT | GCATCTCCCC | GAGAGACTCA | TAAGGTTCTA |
| 6301 | ATGTAGGGTA | GCATCTTCCA | CCGCGGATGC | TGGCGCGCAC | GTAATCGTAT |
| | TACATCCCAT | CGTAGAAGGT | GGCGCCTACG | ACCGCGCGTG | CATTAGCATA |
| 6351 | AGTTCGTGCG | AGGGAGCGAG | GAGGTCGGGA | CCGAGGTTGC | TACGGGCGGG |
| | TCAAGCACGC | TCCCTCGCTC | CTCCAGCCCT | GGCTCCAACG | ATGCCCGCCC |
| 6401 | CTGCTCTGCT | CGGAAGACTA | TCTGCCTGAA | GATGGCATGT | GAGTTGGATG |
| | GACGAGACGA | GCCTTCTGAT | AGACGGACTT | CTACCGTACA | CTCAACCTAC |
| 6451 | | ACGCTGGAAG TGCGACCTTC | | | |
| 6501 | GCGTCACGCA | CGAAGGAGGC | GTAGGAGTCG | CGCAGCTTGT | TGACCAGCTC |
| | CGCAGTGCGT | GCTTCCTCCG | CATCCTCAGC | GCGTCGAACA | ACTGGTCGAG |
| 6551 | GGCGGTGACC | TGCACGTCTA | GGGCGCAGTA | GTCCAGGGTT | TCCTTGATGA |
| | CCGCCACTGG | ACGTGCAGAT | CCCGCGTCAT | CAGGTCCCAA | AGGAACTACT |
| 6601 | TGTCATACTT | ATCCTGTCCC | TTTTTTTCC | ACAGCTCGCG | GTTGAGGACA |
| | ACAGTATGAA | TAGGACAGGG | AAAAAAAAAGG | TGTCGAGCGC | CAACTCCTGT |
| 6651 | AACTCTTCGC | GGTCTTTCCA | GTACTCTTGG | ATCGGAAACC | CGTCGGCCTC |
| | TTGAGAAGCG | CCAGAAAGGT | CATGAGAACC | TAGCCTTTGG | GCAGCCGGAG |
| 6701 | CGAACGGTAA | GAGCCTAGCA | TGTAGAACTG | GTTGACGGCC | TGGTAGGCGC |
| | GCTTGCCATT | CTCGGATCGT | ACATCTTGAC | CAACTGCCGG | ACCATCCGCG |

| 6751 | AGCATCCCTT | TTCTACGGGT | AGCGCGTATG | CCTGCGCGGC | CTTCCGGAGC |
|------|--------------------------|--------------------------|--------------|--------------------------|----------------------------|
| | TCGTAGGGAA | AAGATGCCCA | TCGCGCATAC | GGACGCGCCG | GAAGGCCTCG |
| 6801 | GAGGTGTGGG | TGAGCGCAAA | GGTGTCCCTG | ACCATGACTT | TGAGGTACTG |
| | CTCCACACCC | ACTCGCGTTT | CCACAGGGAC | TGGTACTGAA | ACTCCATGAC |
| 6851 | GTATTTGAAG | TCAGTGTCGT | CGCATCCGCC | CTGCTCCCAG | AGCAAAAAGT |
| | CATAAACTTC | AGTCACAGCA | GCGTAGGCGG | GACGAGGGTC | TCGTTTTTCA |
| 6901 | CCGTGCGCTT | TTTGGAACGC | GGATTTGGCA | GGGCGAAGGT | GACATCGTTG |
| | GGCACGCGAA | AAACCTTGCG | CCTAAACCGT | CCCGCTTCCA | CTGTAGCAAC |
| 6951 | AAGAGTATCT | TTCCCGCGCG | AGGCATAAAG | TTGCGTGTGA | TGCGGAAGGG |
| | TTCTCATAGA | AAGGGCGCGC | TCCGTATTTC | AACGCACACT | ACGCCTTCCC |
| 7001 | TCCCGGCACC | TCGGAACGGT | TGTTAATTAC | CTGGGCGGCG | AGCACGATCT |
| | AGGGCCGTGG | AGCCTTGCCA | ACAATTAATG | GACCCGCCGC | TCGTGCTAGA |
| 7051 | CGTCAAAGCC | GTTGATGTTG | TGGCCCACAA | TGTAAAGTTC | CAAGAAGCGC |
| | GCAGTTTCGG | CAACTACAAC | ACCGGGTGTT | ACATTTCAAG | GTTCTTCGCG |
| 7101 | GGGATGCCCT | TGATGGAAGG | CAATTTTTTA | AGTTCCTCGT | AGGTGAGCTC |
| | CCCTACGGGA | ACTACCTTCC | GTTAAAAAAAT | TCAAGGAGCA | TCCACTCGAG |
| 7151 | TTCAGGGGAG | CTGAGCCCGT | GCTCTGAAAG | GGCCCAGTCT | GCAAGATGAG |
| | AAGTCCCCTC | GACTCGGGCA | CGAGACTTTC | CCGGGTCAGA | CGTTCTACTC |
| 7201 | GGTTGGAAGC | GACGAATGAG | CTCCACAGGT | CACGGGCCAT | TAGCATTTGC |
| | CCAACCTTCG | CTGCTTACTC | GAGGTGTCCA | GTGCCCGGTA | ATCGTAAACG |
| 7251 | AGGTGGTCGC | GAAAGGTCCT | AAACTGGCGA | CCTATGGCCA | TTTTTTCTGG |
| | TCCACCAGCG | CTTTCCAGGA | TTTGACCGCT | GGATACCGGT | AAAAAAGACC |
| 7301 | GGTGATGCAG | TAGAAGGTAA | GCGGGTCTTG | TTCCCAGCGG | TCCCATCCAA |
| | CCACTACGTC | ATCTTCCATT | CGCCCAGAAC | AAGGGTCGCC | AGGGTAGGTT |
| 7351 | GGTTCGCGGC | TAGGTCTCGC | GCGGCAGTCA | CTAGAGGCTC | ATCTCCGCCG |
| | CCAAGCGCCG | ATCCAGAGCG | GCCCGTCAGT | GATCTCCGAG | TAGAGGCGGC |
| 7401 | AACTTCATGA | CCAGCATGAA | GGGCACGAGC | TGCTTCCCAA | AGGCCCCCAT |
| | TTGAAGTACT | GGTCGTACTT | CCCGTGCTCG | ACGAAGGGTT | TCCGGGGGTA |
| 7451 | CCAAGTATAG | GTCTCTACAT | CGTAGGTGAC | AAAGAGACGC | TCGGTGCGAG |
| | GGTTCATATC | CAGAGATGTA | CCATCCACTG | TTTCTCTGCG | AGCCACGCTC |
| 7501 | GATGCGAGCC CTACGCTCGG | GATCGGGAAG CTAGCCCTTC | AACTGGATCT | CCCGCCACCA GGGCGGTGGT | A ATTGGAGGAG TAACCTCCTC |
| 7551 | TGGCTATTGA | TGTGGTGAAA | A GTAGAAGTCO | CTGCGACGGG | CCGAACACTC |
| | ACCGATAACT | ACACCACTTT | CATCTTCAGO | GACGCTGCC | GGCTTGTGAG |

| 7601 | GTGCTGGCTT TTGTAAAAAC GTGCGCAGTA CTGGCAGCGG TGCACGGGCT CACGACCGAA AACATTTTTG CACGCGTCAT GACCGTCGCC ACGTGCCCGA |
|------|--|
| 7651 | GTACATCCTG CACGAGGTTG ACCTGACGAC CGCGCACAAG GAAGCAGAGT CATGTAGGAC GTGCTCCAAC TGGACTGCTG GCGCGTGTTC CTTCGTCTCA |
| 7701 | GGGAATTTGA GCCCCTCGCC TGGCGGGTTT GGCTGGTGGT CTTCTACTTC CCCTTAAACT CGGGGAGCGG ACCGCCCAAA CCGACCACCA GAAGATGAAG |
| 7751 | GGCTGCTTGT CCTTGACCGT CTGGCTGCTC GAGGGGAGTT ACGGTGGATC CCGACGAACA GGAACTGGCA GACCGACGAG CTCCCCTCAA TGCCACCTAG |
| 7801 | GGACCACCAC GCCGCGCGAG CCCAAAGTCC AGATGTCCGC GCGCGGCGGT CCTGGTGGTG CGGCGCGCTC GGGTTTCAGG TCTACAGGCG CGCGCCGCCA |
| 7851 | CGGAGCTTGA TGACAACATC GCGCAGATGG GAGCTGTCCA TGGTCTGGAG GCCTCGAACT ACTGTTGTAG CGCGTCTACC CTCGACAGGT ACCAGACCTC |
| 7901 | CTCCCGCGC GTCAGGTCAG GCGGGAGCTC CTGCAGGTTT ACCTCGCATA GAGGGCGCCG CAGTCCAGTC CGCCCTCGAG GACGTCCAAA TGGAGCGTAT |
| 7951 | GACGGGTCAG GGCGCGGCT AGATCCAGGT GATACCTAAT TTCCAGGGGC CTGCCCAGTC CCGCGCCCGA TCTAGGTCCA CTATGGATTA AAGGTCCCCG |
| 8001 | TGGTTGGTGG CGGCGTCGAT GGCTTGCAAG AGGCCGCATC CCCGCGGCGC ACCAACCACC GCCGCAGCTA CCGAACGTTC TCCGGCGTAG GGGCGCCGCG |
| 8051 | GACTACGGTA CCGCGCGGCG GGCGGTGGGC CGCGGGGGTG TCCTTGGATGCTGATGCCAT GGCGCGCCGC CCGCCACCCG GCGCCCCCAC AGGAACCTAC |
| 8101 | ATGCATCTAA AAGCGGTGAC GCGGGCGAGC CCCCGGAGGT AGGGGGGGCT TACGTAGATT TTCGCCACTG CGCCCGCTCG GGGGCCTCCA TCCCCCCCGA |
| 8151 | CCGGACCCGC CGGGAGAGGG GGCAGGGGCA CGTCGGCGCC GCGCGCGGGC GGCCTGGGCG GCCCTCTCCC CCGTCCCCGT GCAGCCGCGG CGCGCGCCCC |
| 8201 | AGGAGCTGGT GCTGCGCGC TAGGTTGCTG GCGAACGCGA CGACGCGGCGCTCCTCGACCA CGACGCGCGC ATCCAACGAC CGCTTGCGCT GCTGCGCCGC |
| 8251 | GTTGATCTCC TGAATCTGGC GCCTCTGCGT GAAGACGACG GGCCCGGTGA CAACTAGAGG ACTTAGACCG CGGAGACGCA CTTCTGCTGC CCGGGCCACT |
| 8301 | GCTTGAACCT GAAAGAGAGT TCGACAGAAT CAATTTCGGT GTCGTTGACG CGAACTTGGA CTTTCTCTCA AGCTGTCTTA GTTAAAGCCA CAGCAACTGG |
| 8351 | GCGGCCTGGC GCAAAATCTC CTGCACGTCT CCTGAGTTGT CTTGATAGGC CGCCGGACCG CGTTTTAGAG GACGTGCAGA GGACTCAACA GAACTATCCC |
| 8401 | GATCTCGGCC ATGAACTGCT CGATCTCTTC CTCCTGGAGA TCTCCGCGTCCTAGAGCCGG TACTTGACGA GCTAGAGAAG GAGGACCTCT AGAGGCGCAC |

| 8451 | CGGCTCGCTC (GCCGAGCGAG | CACGGTGGCG GTGCCACCGC | GCGAGGTCGT CGCTCCAGCA | TGGAAATGCG ACCTTTACGC | GGCCATGAGC CCGGTACTCG |
|------|--------------------------|--------------------------|---|----------------------------|------------------------------|
| 8501 | TGCGAGAAGG | CGTTGAGGCC | TCCCTCGTTC | CAGACGCGGC | TGTAGACCAC |
| | ACGCTCTTCC | GCAACTCCGG | AGGGAGCAAG | GTCTGCGCCG | ACATCTGGTG |
| 8551 | GCCCCCTTCG | GCATCGCGGG | CGCGCATGAC | CACCTGCGCG | AGATTGAGCT |
| | CGGGGGAAGC | CGTAGCGCCC | GCGCGTACTG | GTGGACGCGC | TCTAACTCGA |
| 8601 | CCACGTGCCG | GGCGAAGACG | GCGTAGTTTC | GCAGGCGCTG | AAAGAGGTAG |
| | GGTGCACGGC | CCGCTTCTGC | CGCATCAAAG | CGTCCGCGAC | TTTCTCCATC |
| 8651 | TTGAGGGTGG | TGGCGGTGTG | TTCTGCCACG | AAGAAGTACA | TAACCCAGCG |
| | AACTCCCACC | ACCGCCACAC | AAGACGGTGC | TTCTTCATGT | ATTGGGTCGC |
| 8701 | TCGCAACGTG | GATTCGTTGA | TATCCCCCAA | GGCCTCAAGG | CGCTCCATGG |
| | AGCGTTGCAC | CTAAGCAACT | ATAGGGGGTT | CCGGAGTTCC | GCGAGGTACC |
| 8751 | CCTCGTAGAA | GTCCACGGCG | AAGTTGAAAA | ACTGGGAGTT | GCGCGCCGAC |
| | GGAGCATCTT | CAGGTGCCGC | TTCAACTTTT | TGACCCTCAA | CGCGCGGCTG |
| 8801 | ACGGTTAACT | CCTCCTCCAG | AAGACGGATG | AGCTCGGCGA | CAGTGTCGCG |
| | TGCCAATTGA | GGAGGAGGTC | TTCTGCCTAC | TCGAGCCGCT | GTCACAGCGC |
| 8851 | CACCTCGCGC | TCAAAGGCTA | CAGGGGCCTC | TTCTTCTTCT | TCAATCTCCT |
| | GTGGAGCGCG | AGTTTCCGAT | GTCCCCGGAG | AAGAAGAAGA | AGTTAGAGGA |
| 8901 | CTTCCATAAG | GGCCTCCCCT | TCTTCTTCTT | CTGGCGGCGG | TGGGGGAGGG |
| | GAAGGTATTC | CCGGAGGGGA | AGAAGAAGAA | GACCGCCGCC | ACCCCCTCCC |
| 8951 | GGGACACGGC | GGCGACGACG | GCGCACCGGG | AGGCGGTCGA | CAAAGCGCTC |
| | CCCTGTGCCG | CCGCTGCTGC | CGCGTGGCCC | TCCGCCAGCT | GTTTCGCGAG |
| 9001 | GATCATCTCC | CCGCGGCGAC | GGCGCATGGT | CTCGGTGACG | GCGCGGCCGT |
| | CTAGTAGAGG | GGCGCCGCTG | CCGCGTACCA | GAGCCACTGC | CGCGCCGGCA |
| 9051 | TCTCGCGGGG | GCGCAGTTGG | AAGACGCCGC | CCGTCATGTC | CCGGTTATGG |
| | AGAGCGCCCC | CGCGTCAACC | TTCTGCGGCG | GGCAGTACAG | GGCCAATACC |
| 9101 | GTTGGCGGGG | GGCTGCCATG | G CGGCAGGGAT | ACGGCGCTAA | A CGATGCATCT |
| | CAACCGCCCC | CCGACGGTAG | C GCCGTCCCTA | ATGCCGCGATT | F GCTACGTAGA |
| 9151 | CAACAATTGT | TGTGTAGGTA | A CTCCGCCGCC | GAGGGACCTO | AGCGAGTCCG |
| | GTTGTTAACA | ACACATCCAT | F GAGGCGGCGC | CTCCCTGGAO | TCGCTCAGGC |
| 9201 | CATCGACCGG | ATCGGAAAA(| C CTCTCGAGA/ | A AGGCGTCTA/ | A CCAGTCACAG |
| | GTAGCTGGCC | TAGCCTTTT(| G GAGAGCTCT | T TCCGCAGAT | T GGTCAGTGTC |
| 9251 | TCGCAAGGTA AGCGTTCCAT | GGCTGAGCAG CCGACTCGTG | C CGTGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG | G GGCAGCGGG G CCGTCGCCC | C GGCGGTCGGG G CCGCCAGCCC |

| 9301 | CAACAAAGAC | CGCCTCCACG | ACGACTACTA | CATTAATTIC | |
|-------|--------------------------|-----------------------|--------------------------|------------------------------|----------------------------|
| 9351 | TGAGACGGCG | GATGGTCGAC | AGAAGCACCA | TGTCCTTGGG | TCCGGCCTGC |
| | ACTCTGCCGC | CTACCAGCTG | TCTTCGTGGT | ACAGGAACCC | AGGCCGGACG |
| 9401 | TGAATGCGCA | GGCGGTCGGC | CATGCCCCAG | GCTTCGTTTT | GACATCGGCG |
| | ACTTACGCGT | CCGCCAGCCG | GTACGGGGTC | CGAAGCAAAA | CTGTAGCCGC |
| 9451 | CAGGTCTTTG | TAGTAGTCTT | GCATGAGCCT | TTCTACCGGC | ACTTCTTCTT |
| | GTCCAGAAAC | ATCATCAGAA | CGTACTCGGA | AAGATGGCCG | TGAAGAAGAA |
| 9501 | CTCCTTCCTC | TTGTCCTGCA | TCTCTTGCAT | CTATCGCTGC | GGCGGCGGCG |
| | GAGGAAGGAG | AACAGGACGT | AGAGAACGTA | GATAGCGACG | CCGCCGCCGC |
| 9551 | GAGTTTGGCC | GTAGGTGGCG | CCCTCTTCCT | CCCATGCGTG | TGACCCCGAA |
| | CTCAAACCGG | CATCCACCGC | GGGAGAAGGA | GGGTACGCAC | ACTGGGGCTT |
| 9601 | GCCCCTCATC | GGCTGAAGCA | GGGCTAGGTC | GGCGACAACG | CGCTCGGCTA |
| | CGGGGAGTAG | CCGACTTCGT | CCCGATCCAG | CCGCTGTTGC | GCGAGCCGAT |
| 9651 | ATATGGCCTG | CTGCACCTGC | GTGAGGGTAG | ACTGGAAGTC | ATCCATGTCC |
| | TATACCGGAC | GACGTGGACG | CACTCCCATC | TGACCTTCAG | TAGGTACAGG |
| 9701 | ACAAAGCGGT | GGTATGCGCC | CGTGTTGATG | GTGTAAGTGC | AGTTGGCCAT |
| | TGTTTCGCCA | CCATACGCGG | GCACAACTAC | CACATTCACG | TCAACCGGTA |
| 9751 | AACGGACCAG | TTAACGGTCT | GGTGACCCGG | CTGCGAGAGC | TCGGTGTACC |
| | TTGCCTGGTC | AATTGCCAGA | CCACTGGGCC | GACGCTCTCG | AGCCACATGG |
| 9801 | TGAGACGCGA | GTAAGCCCTC | GAGTCAAATA | CGTAGTCGTT | GCAAGTCCGC |
| | ACTCTGCGCT | CATTCGGGAG | CTCAGTTTAT | GCATCAGCAA | CGTTCAGGCG |
| 9851 | ACCAGGTACT | GGTATCCCAC | CAAAAAGTGC | GGCGGCGGCT | GGCGGTAGAG |
| | TGGTCCATGA | CCATAGGGTG | GTTTTTCACG | CCGCCGCCGA | CCGCCATCTC |
| 9901 | GGGCCAGCGT | AGGGTGGCCG | GGGCTCCGGG | GGCGAGATCT | TCCAACATAA |
| | CCCGGTCGCA | TCCCACCGG | CCCGAGGCCC | CCGCTCTAGA | AGGTTGTATT |
| 9951 | GGCGATGATA | TCCGTAGATO | TACCTGGACA | TCCAGGTGAT | GCCGGCGGCG |
| | CCGCTACTAT | AGGCATCTAG | ATGGACCTGT | AGGTCCACTA | CGGCCGCCGC |
| 10001 | GTGGTGGAGG CACCACCTCG | G CGCGCGGAAA | A GTCGCGGACG | G CGGTTCCAGA C GCCAAGGTCT | TGTTGCGCAG ACAACGCGTC |
| 10051 | CGGCAAAAA GCCGTTTTT | TGCTCCATGO ACGAGGTACO | TCGGGACGCT AGCCCTGCGA | CTGGCCGGT(A GACCGGCCA(| AGGCGCGCGC TCCGCGCGCGCG |
| 10101 | AATCGTTGA(| GCTCTAGACG | C GTGCAAAAG(| AGAGCCTGTA | A AGCGGGCACT |
| | TTAGCAACT(| GCGAGATCTG | G CACGTTTTC(| TCTCGGACAT | T TCGCCCGTGA |

| 10151 | CTTCCGTGGT | CTGGTGGATA | AATTCGCAAG | GGTATCATGG | CGGACGACCG |
|-------|--------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| | GAAGGCACCA | GACCACCTAT | TTAAGCGTTC | CCATAGTACC | GCCTGCTGGC |
| 10201 | GGGTTCGAGC | CCCGTATCCG | GCCGTCCGCC | GTGATCCATG | CGGTTACCGC |
| | CCCAAGCTCG | GGGCATAGGC | CGGCAGGCGG | CACTAGGTAC | GCCAATGGCG |
| 10251 | CCGCGTGTCG | AACCCAGGTG | TGCGACGTCA | GACAACGGGG | GAGTGCTCCT |
| | GGCGCACAGC | TTGGGTCCAC | ACGCTGCAGT | CTGTTGCCCC | CTCACGAGGA |
| 10301 | TTTGGCTTCC | TTCCAGGCGC | GGCGGCTGCT | GCGCTAGCTT | TTTTGGCCAC |
| | AAACCGAAGG | AAGGTCCGCG | CCGCCGACGA | CGCGATCGAA | AAAACCGGTG |
| 10351 | TGGCCGCGCG | CAGCGTAAGC | GGTTAGGCTG | GAAAGCGAAA | GCATTAAGTG |
| | ACCGGCGCGC | GTCGCATTCG | CCAATCCGAC | CTTTCGCTTT | CGTAATTCAC |
| 10401 | GCTCGCTCCC | TGTAGCCGGA | GGGTTATTTT | CCAAGGGTTG | AGTCGCGGGA |
| | CGAGCGAGGG | ACATCGGCCT | CCCAATAAAA | GGTTCCCAAC | TCAGCGCCCT |
| 10451 | CCCCCGGTTC | GAGTCTCGGA | CCGGCCGGAC | TGCGGCGAAC | GGGGGTTTGC |
| | GGGGGCCAAG | CTCAGAGCCT | GGCCGGCCTG | ACGCCGCTTG | CCCCCAAACG |
| 10501 | CTCCCCGTCA | TGCAAGACCC | CGCTTGCAAA | TTCCTCCGGA | AACAGGGACG |
| | GAGGGGCAGT | ACGTTCTGGG | GCGAACGTTT | AAGGAGGCCT | TTGTCCCTGC |
| 10551 | AGCCCCTTTT | TTGCTTTTCC | CAGATGCATC | CGGTGCTGCG | G GCAGATGCGC |
| | TCGGGGAAAA | AACGAAAAGG | GTCTACGTAG | GCCACGACGC | CGTCTACGCG |
| 10601 | CCCCCTCCTC | AGCAGCGGCA | A AGAGCAAGAG | CAGCGGCAGA | A CATGCAGGGC |
| | GGGGGAGGAG | TCGTCGCCGT | T TCTCGTTCTC | CGTCGCCGTCT | GTACGTCCCG |
| 10651 | ACCCTCCCCT TGGGAGGGGA | CCTCCTACCO | G CGTCAGGAGG C GCAGTCCTCC | G GGCGACATCO C CCGCTGTAGO | C GCGGTTGACG CGCCAACTGC |
| 10701 | CGGCAGCAGA GCCGTCGTCT | TGGTGATTA(| GAACCCCCGC CTTGGGGGCC | G GGCGCCGGGCCCC | C CCGGCACTAC G GGCCGTGATG |
| 10751 | CTGGACTTGG GACCTGAACG | AGGAGGGCG/ | A GGGCCTGGC(T CCCGGACCG(| G CGGCTAGGA(C GCCGATCCT(| G CGCCCTCTCC C GCGGGAGAGG |
| 10801 | TGAGCGGCA(ACTCGCCGT(| C CCAAGGGTGG G GGTTCCCAC | C AGCTGAAGC | G TGATACGCG C ACTATGCGC | T GAGGCGTACG A CTCCGCATGC |
| 10851 | TGCCGCGGC/ | A GAACCTGTT | T CGCGACCGC | G AGGGAGAGG | A GCCCGAGGAG |
| | ACGGCGCCG | T CTTGGACAA | A GCGCTGGCG | C TCCCTCTCC | T CGGGCTCCTC |
| 10901 | ATGCGGGAT(| C GAAAGTTCC G CTTTCAAGG | A CGCAGGGCG T GCGTCCCGC | C GAGCTGCGG G CTCGACGCC | C ATGGCCTGAA G TACCGGACTT |
| 10951 | TCGCGAGCG AGCGCTCGC | G TTGCTGCGC C AACGACGCG | G AGGAGGACT | T TGAGCCCGA A ACTCGGGCT | C GCGCGAACCG G CGCGCTTGGC |

| 11001 | GGATTAGTCC CGCGCGCGCA CACGTGGCGG CCGCCGACCT GGTAACCGCA CCTAATCAGG GCGCGCGCT GTGCACCGCC GGCGGCTGGA CCATTGGCGT |
|-------|--|
| 11051 | TACGAGCAGA CGGTGAACCA GGAGATTAAC TTTCAAAAAA GCTTTAACAA ATGCTCGTCT GCCACTTGGT CCTCTAATTG AAAGTTTTTT CGAAATTGTT |
| 11101 | CCACGTGCGT ACGCTTGTGG CGCGCGAGGA GGTGGCTATA GGACTGATGC GGTGCACGCA TGCGAACACC GCGCGCTCCT CCACCGATAT CCTGACTACG |
| 11151 | ATCTGTGGGA CTTTGTAAGC GCGCTGGAGC AAAACCCAAA TAGCAAGCCG TAGACACCCT GAAACATTCG CGCGACCTCG TTTTGGGTTT ATCGTTCGGC |
| 11201 | CTCATGGCGC AGCTGTTCCT TATAGTGCAG CACAGCAGGG ACAACGAGGC GAGTACCGCG TCGACAAGGA ATATCACGTC GTGTCGTCCC TGTTGCTCCG |
| 11251 | ATTCAGGGAT GCGCTGCTAA ACATAGTAGA GCCCGAGGGC CGCTGGCTGC TAAGTCCCTA CGCGACGATT TGTATCATCT CGGGCTCCCG GCGACCGACG |
| 11301 | TCGATTTGAT AAACATCCTG CAGAGCATAG TGGTGCAGGA GCGCAGCTTG AGCTAAACTA TTTGTAGGAC GTCTCGTATC ACCACGTCCT CGCGTCGAAC |
| 11351 | AGCCTGGCTG ACAAGGTGGC CGCCATCAAC TATTCCATGC TTAGCCTGGG TCGGACCGAC TGTTCCACCG GCGGTAGTTG ATAAGGTACG AATCGGACCC |
| 11401 | CAAGTTTTAC GCCCGCAAGA TATACCATAC CCCTTACGTT CCCATAGACA GTTCAAAATG CGGGCGTTCT ATATGGTATG GGGAATGCAA GGGTATCTGT |
| 11451 | AGGAGGTAAA GATCGAGGGG TTCTACATGC GCATGGCGCT GAAGGTGCTT TCCTCCATTT CTAGCTCCCC AAGATGTACG CGTACCGCGA CTTCCACGAA |
| 11501 | ACCTTGAGCG ACGACCTGGG CGTTTATCGC AACGAGCGCA TCCACAAGGC TGGAACTCGC TGCTGGACCC GCAAATAGCG TTGCTCGCGT AGGTGTTCCG |
| 11551 | CGTGAGCGTG AGCCGGCGGC GCGAGCTCAG CGACCGCGAG CTGATGCACA GCACTCGCAC TCGGCCGCCG CGCTCGAGTC GCTGGCGCTC GACTACGTGT |
| 11601 | GCCTGCAAAG GGCCCTGGCT GGCACGGGCA GCGGCGATAG AGAGGCCGAG CGGACGTTTC CCGGGACCGA CCGTGCCCGT CGCCGCTATC TCTCCGGCTC |
| 11651 | TCCTACTTTG ACGCGGGCGC TGACCTGCGC TGGGCCCCAA GCCGACGCGC AGGATGAAAC TGCGCCCGCG ACTGGACGCG ACCCGGGGTT CGGCTGCGCG |
| 11701 | CCTGGAGGCA GCTGGGGCCG GACCTGGGCT GGCGGTGGCA CCCGCGCGCG GGACCTCCGT CGACCCCGGC CTGGACCCGA CCGCCACCGT GGGCGCGCGC |
| 11751 | CTGGCAACGT CGGCGGCGTG GAGGAATATG ACGAGGACGA TGAGTACGAG GACCGTTGCA GCCGCCGCAC CTCCTTATAC TGCTCCTGCT ACTCATGCTC |
| 11801 | CCAGAGGACG GCGAGTACTA AGCGGTGATG TTTCTGATCA GATGATGCAA GGTCTCCTGC CGCTCATGAT TCGCCACTAC AAAGACTAGT CTACTACGTT |

| 11851 | GACGCAACGG | ACCCGGCGGT | GCGGGCGGCG | CTGCAGAGCC | AGCCGTCCGG |
|-------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|
| | CTGCGTTGCC | TGGGCCGCCA | CGCCCGCCGC | GACGTCTCGG | TCGGCAGGCC |
| 11901 | CCTTAACTCC | ACGGACGACT | GGCGCCAGGT | CATGGACCGC | ATCATGTCGC |
| | GGAATTGAGG | TGCCTGCTGA | CCGCGGTCCA | GTACCTGGCG | TAGTACAGCG |
| 11951 | TGACTGCGCG | CAATCCTGAC | GCGTTCCGGC | AGCAGCCGCA | GGCCAACCGG |
| | ACTGACGCGC | GTTAGGACTG | CGCAAGGCCG | TCGTCGGCGT | CCGGTTGGCC |
| 12001 | CTCTCCGCAA | TTCTGGAAGC | GGTGGTCCCG | GCGCGCGCAA | ACCCCACGCA |
| | GAGAGGCGTT | AAGACCTTCG | CCACCAGGGC | CGCGCGCGTT | TGGGGTGCGT |
| 12051 | CGAGAAGGTG | CTGGCGATCG | TAAACGCGCT | GGCCGAAAAC | AGGGCCATCC |
| | GCTCTTCCAC | GACCGCTAGC | ATTTGCGCGA | CCGGCTTTTG | TCCCGGTAGG |
| 12101 | GGCCCGACGA | GGCCGGCCTG | GTCTACGACG | CGCTGCTTCA | GCGCGTGGCT |
| | CCGGGCTGCT | CCGGCCGGAC | CAGATGCTGC | GCGACGAAGT | CGCGCACCGA |
| 12151 | CGTTACAACA | GCGGCAACGT | GCAGACCAAC | CTGGACCGGC | TGGTGGGGGA |
| | GCAATGTTGT | CGCCGTTGCA | CGTCTGGTTG | GACCTGGCCG | ACCACCCCCT |
| 12201 | TGTGCGCGAG | GCCGTGGCGC | AGCGTGAGCG | CGCGCAGCAG | CAGGGCAACC |
| | ACACGCGCTC | CGGCACCGCG | TCGCACTCGC | GCGCGTCGTC | GTCCCGTTGG |
| 12251 | TGGGCTCCAT ACCCGAGGTA | GGTTGCACTA CCAACGTGAT | AACGCCTTCC TTGCGGAAGG | TGAGTACACA ACTCATGTGT | GCCCGCCAAC |
| 12301 | GTGCCGCGGG | GACAGGAGGA | A CTACACCAAC | TTTGTGAGCG | CACTGCGGCT |
| | CACGGCGCCC | CTGTCCTCCT | GATGTGGTTG | AAACACTCGC | GTGACGCCGA |
| 12351 | AATGGTGACT | GAGACACCG(| C AAAGTGAGGT | GTACCAGTCT | GGGCCAGACT |
| | TTACCACTGA | CTCTGTGGC(| G TTTCACTCCA | CATGGTCAGA | CCCGGTCTGA |
| 12401 | ATTTTTCCA | A GACCAGTAGA | A CAAGGCCTGC | AGACCGTAAA | CCTGAGCCAG |
| | TAAAAAAGGT | CTGGTCATC | T GTTCCGGACG | TCTGGCATTT | GGACTCGGTC |
| 12451 | GCTTTCAAA/ | A ACTTGCAGG(| G GCTGTGGGGG | GTGCGGGCTC | CCACAGGCGA |
| | CGAAAGTTT | F TGAACGTCC | C CGACACCCC | CACGCCCGAC | GGTGTCCGCT |
| 12501 | CCGCGCGAC(| GTGTCTAGC | T TGCTGACGC(| CAACTCGCGG | CTGTTGCTGC |
| | GGCGCGCTG(| G CACAGATCG | A ACGACTGCG(| GTTGAGCGCG | GACAACGACG |
| 12551 | TGCTAATAG(| G GCCCTTCAC | G GACAGTGGCA | A GCGTGTCCCC | G GGACACATAC |
| | ACGATTATC | G CGGGAAGTG | C CTGTCACCG | C CGCACAGGG | C CCTGTGTATG |
| 12601 | GATCCAGTG | A ACGACTGTG | A CATGGCGCT | C CGGTATCCA | C AGGCGCATGT G TCCGCGTACA |
| 12651 | GGACGAGCA | T ACTTTCCAG | G AGATTACAA | G TGTCAGCCG | C GCGCTGGGC |
| | CCTGCTCGT | A TGAAAGGTC | C TCTAATGTT | C ACAGTCGGC | G CGCGACCCCG |

| 12701 | AGGAGGACAC GGGCAGCCTG GAGGCAACCC TAAACTACCT GCTGACCAAC TCCTCCTGTG CCCGTCGGAC CTCCGTTGGG ATTTGATGGA CGACTGGTTG |
|-------|--|
| 12751 | CGGCGGCAGA AGATCCCCTC GTTGCACAGT TTAAACAGCG AGGAGGAGCG GCCGCCGTCT TCTAGGGGAG CAACGTGTCA AATTTGTCGC TCCTCCTCGC |
| 12801 | CATTTTGCGC TACGTGCAGC AGAGCGTGAG CCTTAACCTG ATGCGCGACG GTAAAACGCG ATGCACGTCG TCTCGCACTC GGAATTGGAC TACGCGCTGC |
| 12851 | GGGTAACGCC CAGCGTGGCG CTGGACATGA CCGCGCGCAA CATGGAACCG CCCATTGCGG GTCGCACCGC GACCTGTACT GGCGCGCGTT GTACCTTGGC |
| 12901 | GGCATGTATG CCTCAAACCG GCCGTTTATC AACCGCCTAA TGGACTACTT CCGTACATAC GGAGTTTGGC CGGCAAATAG TTGGCGGATT ACCTGATGAA |
| 12951 | GCATCGCGCG GCCGCCGTGA ACCCCGAGTA TTTCACCAAT GCCATCTTGA CGTAGCGCGC CGGCGGCACT TGGGGCTCAT AAAGTGGTTA CGGTAGAACT |
| 13001 | ACCCGCACTG GCTACCGCCC CCTGGTTTCT ACACCGGGGG ATTCGAGGTG TGGGCGTGAC CGATGGCGGG GGACCAAAGA TGTGGCCCCC TAAGCTCCAC |
| 13051 | CCCGAGGGTA ACGATGGATT CCTCTGGGAC GACATAGACG ACAGCGTGTT GGGCTCCCAT TGCTACCTAA GGAGACCCTG CTGTATCTGC TGTCGCACAA |
| 13101 | TTCCCCGCAA CCGCAGACCC TGCTAGAGTT GCAACAGCGC GAGCAGGCAG AAGGGGCGTT GGCGTCTGGG ACGATCTCAA CGTTGTCGCG CTCGTCCGTC |
| 13151 | AGGCGGCGCT GCGAAAGGAA AGCTTCCGCA GGCCAAGCAG CTTGTCCGAT TCCGCCGCGA CGCTTTCCTT TCGAAGGCGT CCGGTTCGTC GAACAGGCTA |
| 13201 | CTAGGCGCTG CGGCCCCGCG GTCAGATGCT AGTAGCCCAT TTCCAAGCTT GATCCGCGAC GCCGGGGCGC CAGTCTACGA TCATCGGGTA AAGGTTCGAA |
| 13251 | GATAGGGTCT CTTACCAGCA CTCGCACCAC CCGCCCGCGC CTGCTGGGCG CTATCCCAGA GAATGGTCGT GAGCGTGGTG GGCGGGCGCG GACGACCCGC |
| 13301 | AGGAGGAGTA CCTAAACAAC TCGCTGCTGC AGCCGCAGCG CGAAAAAAAC TCCTCCTCAT GGATTTGTTG AGCGACGACG TCGGCGTCGC GCTTTTTTTG |
| 13351 | CTGCCTCCGG CATTTCCCAA CAACGGGATA GAGAGCCTAG TGGACAAGAT GACGGAGGCC GTAAAGGGTT GTTGCCCTAT CTCTCGGATC ACCTGTTCTA |
| 13401 | GAGTAGATGG AAGACGTACG CGCAGGAGCA CAGGGACGTG CCAGGCCCGC CTCATCTACC TTCTGCATGC GCGTCCTCGT GTCCCTGCAC GGTCCGGGCG |
| 13451 | GCCCGCCCAC CCGTCGTCAA AGGCACGACC GTCAGCGGGG TCTGGTGTGG CGGGCGGTG GGCAGCAGTT TCCGTGCTGG CAGTCGCCCC AGACCACACC |
| 13501 | GAGGACGATG ACTCGGCAGA CGACAGCAGC GTCCTGGATT TGGGAGGGAG CTCCTGCTAC TGAGCCGTCT GCTGTCGTCG CAGGACCTAA ACCCTCCCTC |

| 13551 | TGGCAACCCG TTTGCGCACC TT ACCGTTGGGC AAACGCGTGG AA | CGCCCCAG GCTGGGGAGA ATGTTTTAAA GCGGGGTC CGACCCCTCT TACAAAATTT |
|-------|--|--|
| 13601 | AAAAAAAAAA GCATGATGCA AA | ATAAAAAA CTCACCAAGG CCATGGCACC TATTTTT GAGTGGTTCC GGTACCGTGG |
| 13651 | GAGCGTTGGT TTTCTTGTAT TO CTCGCAACCA AAAGAACATA AG | CCCTTAGT ATGCGGCGCG CGGCGATGTA GGGGAATCA TACGCCGCGC GCCGCTACAT |
| 13701 | TGAGGAAGGT CCTCCTCCCT CC ACTCCTTCCA GGAGGAGGGA GG | CTACGAGAG TGTGGTGAGC GCGGCGCCAG GATGCTCTC ACACCACTCG CGCCGCGGTC |
| 13751 | TGGCGGCGGC GCTGGGTTCT CC ACCGCCGCCG CGACCCAAGA GG | CCTTCGATG CTCCCCTGGA CCCGCCGTTT GGAAGCTAC GAGGGGACCT GGGCGGCAAA |
| 13801 | GTGCCTCCGC GGTACCTGCG GCCACGGAGGCG CCATGGACGC CC | CCTACCGGG GGGAGAAACA GCATCCGTTA GGATGGCCC CCCTCTTTGT CGTAGGCAAT |
| 13851 | CTCTGAGTTG GCACCCCTAT TO GAGACTCAAC CGTGGGGATA AO | CGACACCAC CCGTGTGTAC CTGGTGGACA GCTGTGGTG GGCACACATG GACCACCTGT |
| 13901 | ACAAGTCAAC GGATGTGGCA TO TGTTCAGTTG CCTACACCGT A | CCCTGAACT ACCAGAACGA CCACAGCAAC GGGACTTGA TGGTCTTGCT GGTGTCGTTG |
| 13951 | TTTCTGACCA CGGTCATTCA A AAAGACTGGT GCCAGTAAGT T | AACAATGAC TACAGCCCGG GGGAGGCAAG TTGTTACTG ATGTCGGGCC CCCTCCGTTC |
| 14001 | CACACAGACC ATCAATCTTG A GTGTGTCTGG TAGTTAGAAC T | CGACCGGTC GCACTGGGGC GGCGACCTGA GCTGGCCAG CGTGACCCCG CCGCTGGACT |
| 14051 | . AAACCATCCT GCATACCAAC A | TGCCAAATG TGAACGAGTT CATGTTTACC ACGGTTTAC ACTTGCTCAA GTACAAATGG |
| 14101 | AATAAGTTTA AGGCGCGGGT G | CATGGTGTCG CGCTTGCCTA CTAAGGACAA CTACCACAGC GCGAACGGAT GATTCCTGTT |
| 14151 | TCAGGTGGAG CTGAAATACG A | AGTGGGTGGA GTTCACGCTG CCCGAGGGCA TCACCCACCT CAAGTGCGAC GGGCTCCCGT |
| 14201 | ACTACTCCGA GACCATGACC A TGATGAGGCT CTGGTACTGG T | ATAGACCTTA TGAACAACGC GATCGTGGAG FATCTGGAAT ACTTGTTGCG CTAGCACCTC |
| 14251 | 1 CACTACTTGA AAGTGGGCAG A | ACAGAACGGG GTTCTGGAAA GCGACATCGG IGTCTTGCCC CAAGACCTTT CGCTGTAGCC |
| 14301 | 1 GGTAAAGTTT GACACCCGCA A | ACTTCAGACT GGGGTTTGAC CCCGTCACTG TGAAGTCTGA CCCCAAACTG GGGCAGTGAC |
| 14351 | 1 GTCTTGTCAT GCCTGGGGTA CAGAACAGTA CGGACCCCAT | TATACAAACG AAGCCTTCCA TCCAGACATC ATATGTTTGC TTCGGAAGGT AGGTCTGTAG |

| 14401 | ATTTTGCTGC CAGGATGCGG GGTGGACTTC ACCCACAGCC GCCTGAGCAA TAAAACGACG GTCCTACGCC CCACCTGAAG TGGGTGTCGG CGGACTCGTT |
|-------|--|
| 14451 | CTTGTTGGGC ATCCGCAAGC GGCAACCCTT CCAGGAGGGC TTTAGGATCA GAACAACCCG TAGGCGTTCG CCGTTGGGAA GGTCCTCCCG AAATCCTAGT |
| 14501 | CCTACGATGA TCTGGAGGGT GGTAACATTC CCGCACTGTT GGATGTGGAC GGATGCTACT AGACCTCCCA CCATTGTAAG GGCGTGACAA CCTACACCTG |
| 14551 | GCCTACCAGG CGAGCTTGAA AGATGACACC GAACAGGGCG GGGGTGGCGC CGGATGGTCC GCTCGAACTT TCTACTGTGG CTTGTCCCGC CCCCACCGCG |
| 14601 | AGGCGGCAGC AACAGCAGTG GCAGCGGCGC GGAAGAGAAC TCCAACGCGG TCCGCCGTCG TTGTCGTCAC CGTCGCCGCG CCTTCTCTTG AGGTTGCGCC |
| 14651 | CAGCCGCGC AATGCAGCCG GTGGAGGACA TGAACGATCA TGCCATTCGC GTCGGCGCCG TTACGTCGGC CACCTCCTGT ACTTGCTAGT ACGGTAAGCG |
| 14701 | GGCGACACCT TTGCCACACG GGCTGAGGAG AAGCGCGCTG AGGCCGAAGC CCGCTGTGGA AACGGTGTGC CCGACTCCTC TTCGCGCGAC TCCGGCTTCG |
| 14751 | AGCGGCCGAA GCTGCCGCCC CCGCTGCGCA ACCCGAGGTC GAGAAGCCTC TCGCCGGCTT CGACGGCGGG GGCGACGCGT TGGGCTCCAG CTCTTCGGAG |
| 14801 | AGAAGAAACC GGTGATCAAA CCCCTGACAG AGGACAGCAA GAAACGCAGT TCTTCTTTGG CCACTAGTTT GGGGACTGTC TCCTGTCGTT CTTTGCGTCA |
| 14851 | TACAACCTAA TAAGCAATGA CAGCACCTTC ACCCAGTACC GCAGCTGGTA ATGTTGGATT ATTCGTTACT GTCGTGGAAG TGGGTCATGG CGTCGACCAT |
| 14901 | CCTTGCATAC AACTACGGCG ACCCTCAGAC CGGAATCCGC TCATGGACCC GGAACGTATG TTGATGCCGC TGGGAGTCTG GCCTTAGGCG AGTACCTGGG |
| 14951 | TGCTTTGCAC TCCTGACGTA ACCTGCGGCT CGGAGCAGGT CTACTGGTCG ACGAAACGTG AGGACTGCAT TGGACGCCGA GCCTCGTCCA GATGACCAGC |
| 15001 | TTGCCAGACA TGATGCAAGA CCCCGTGACC TTCCGCTCCA CGCGCCAGAT AACGGTCTGT ACTACGTTCT GGGGCACTGG AAGGCGAGGT GCGCGGTCTA |
| 15051 | CAGCAACTTT CCGGTGGTGG GCGCCGAGCT GTTGCCCGTG CACTCCAAGA GTCGTTGAAA GGCCACCACC CGCGGCTCGA CAACGGGCAC GTGAGGTTCT |
| 15101 | GCTTCTACAA CGACCAGGCC GTCTACTCCC AACTCATCCG CCAGTTTACC CGAAGATGTT GCTGGTCCGG CAGATGAGGG TTGAGTAGGC GGTCAAATGG |
| 15151 | TOOCHTEE AND TOOCHTEE CACAACCACA TETTGGCGGG |
| 15201 | CCCGCCAGCC CCCACCATCA CCACCGTCAG TGAAAACGTT CCTGCTCTCA GGGCGGTCGG GGGTGGTAGT GGTGGCAGTC ACTTTTGCAA GGACGAGAGT |

| 15251 | CAGATCACGG (GTCTAGTGCC (| GACGCTACCG CTGCGATGGC | CTGCGCAACA GACGCGTTGT | GCATCGGAGG CGTAGCCTCC | AGTCCAGCGA TCAGGTCGCT |
|-------|--------------------------|--------------------------|--------------------------|--|----------------------------|
| 15301 | GTGACCATTA (CACTGGTAAT (| CTGACGCCAG GACTGCGGTC | ACGCCGCACC TGCGGCGTGG | TGCCCCTACG ACGGGGATGC | TTTACAAGGC AAATGTTCCG |
| 15351 | CCTGGGCATA (| GTCTCGCCGC CAGAGCGGCG | GCGTCCTATC CGCAGGATAG | GAGCCGCACT CTCGGCGTGA | TTTTGAGCAA AAAACTCGTT |
| 15401 | GCATGTCCAT | CCTTATATCG | CCCAGCAATA | ACACAGGCTG | GGGCCTGCGC |
| | CGTACAGGTA | GGAATATAGC | GGGTCGTTAT | TGTGTCCGAC | CCCGGACGCG |
| 15451 | TTCCCAAGCA | AGATGTTTGG | CGGGGCCAAG | AAGCGCTCCG | ACCAACACCC |
| | AAGGGTTCGT | TCTACAAACC | GCCCCGGTTC | TTCGCGAGGC | TGGTTGTGGG |
| 15501 | AGTGCGCGTG | CGCGGGCACT | ACCGCGCGCC | CTGGGGCGCG | CACAAACGCG |
| | TCACGCGCAC | GCGCCCGTGA | TGGCGCGCGG | GACCCCGCGC | GTGTTTGCGC |
| 15551 | GCCGCACTGG | GCGCACCACC | GTCGATGACG | CCATCGACGC | GGTGGTGGAG |
| | CGGCGTGACC | CGCGTGGTGG | CAGCTACTGC | GGTAGCTGCG | CCACCACCTC |
| 15601 | GAGGCGCGCA | ACTACACGCC | CACGCCGCCA | CCAGTGTCCA | CAGTGGACGC |
| | CTCCGCGCGT | TGATGTGCGG | GTGCGGCGGT | GGTCACAGGT | GTCACCTGCG |
| 15651 | GGCCATTCAG | ACCGTGGTGC | GCGGAGCCCG | GCGCTATGCT | AAAATGAAGA |
| | CCGGTAAGTC | TGGCACCACG | CGCCTCGGGC | CGCGATACGA | TTTTACTTCT |
| 15701 | GACGGCGGAG | GCGCGTAGCA | CGTCGCCACC | GCCGCCGACC | CGGCACTGCC |
| | CTGCCGCCTC | CGCGCATCGT | GCAGCGGTGG | CGGCGGCTGG | GCCGTGACGG |
| 15751 | GCCCAACGCG | CGGCGGCGGC | CCTGCTTAAC | CGCGCACGTC | GCACCGGCCG |
| | CGGGTTGCGC | GCCGCCGCCG | GGACGAATTG | GCGCGTGCAG | CGTGGCCGGC |
| 15801 | ACGGGCGGCC | ATGCGGGCCG | CTCGAAGGCT | GGCCGCGGGT | ATTGTCACTG |
| | TGCCCGCCGG | TACGCCCGGC | GAGCTTCCGA | CCGGCGCCCA | TAACAGTGAC |
| 15851 | TGCCCCCCAG ACGGGGGGTC | GTCCAGGCGA CAGGTCCGCT | CGAGCGGCCG | CCGCAGCAGC GGCGTCGTCG | CGCGGCCATT GCGCCGGTAA |
| 15901 | AGTGCTATGA | CTCAGGGTCG | CAGGGGCAAC | GTGTATTGGG | TGCGCGACTC |
| | TCACGATACT | GAGTCCCAGC | GTCCCCGTTC | GCACATAACCC | ACGCGCTGAG |
| 15951 | GGTTAGCGGC CCAATCGCCG | CTGCGCGTGC GACGCGCACG | CCGTGCGCAC GGCACGCGTC | CCGCCCCCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG | G CGCAACTAGA GCGTTGATCT |
| 16001 | TTGCAAGAAA | AAACTACTTA | GACTCGTACT | T GTTGTATGTA | A TCCAGCGGCG |
| | AACGTTCTTT | TTTGATGAAT | CTGAGCATG/ | A CAACATACA | F AGGTCGCCGC |
| 16051 | GCGGCGCGCA | ACGAAGCTAT | GTCCAAGCG(| C AAAATCAAA(| AAGAGATGCT |
| | CGCCGCGCGT | TGCTTCGATA | A CAGGTTCGC(| G TITTAGTTT(| TTCTCTACGA |

| 16101 CCAGGTCATC GCGCGGCTCT AGATACCGGG GGCTTCTTC CTTCTCGTCC 16151 ATTACAAGCC CCGAAAGCTA AAGCGGGTCA AAAAGAAAAA GAAAGATGAT TAATGTTCGG GGCTTTCGAT TTCGCCCAGT TTTTTTTTTT | | | | | | |
|--|-------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| TAATGTTCGG GGCTTTCGAT TTCGCCCAGT TTTTCTTTT CTTTCACTA 16201 GATGATGAAC TTGACGACGA GGTGGAACTG CTGCACGCTA CCGCGCCCAG CTACTACTTG AACTGCTGCT CCACCTTGAC GACGTGCAT GGCGCCCAG CCACCACCGT ACTCACCTTTC CAGCTGCCA TTTTGCACAA AACGCTGGCC 16251 GCGACGGGTA CAGTGGAAAG GTCGACGCGT AAAACGTGTT TTGCGACCCG CGCTGCCCAT GTCACCTTTC CAGCTGCGCA TTTTGCACAA AACGCTGGGC 16301 GCACCACCGT AGTCTTTACG CCCGGTGAGC GCTCCACCCG CACCTACAAG CGTGGTGGCA TCAGAAATGC GGGCCACTCG CGAGGTGGGC GTGGATGTTC 16351 CGCGTGTATG ATGAGGTGTA CGGCGACGAG GACCTGCTTG AGCAGGCCAA GCGCACATAC TACTCCACAT GCCGCTGCTC CTGGACGAAC TCGTCCGGTT 16401 CGAGCGCCTC GGGGAGTTTG CCTACGGAAA GCGCCATAAG GCCCCCTCACAC GCCCCCTCACAC GGATGCCCTT CGCCCGTTTC CGCCCGTATTC CTGTACGACC 16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCGTAACA GCAACGGCGA CCTGCTCCCG GTTGGGTTGT CGCCCGTATTC CGGCCATTGT 16501 CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCGCGGCCT GACGTCGTCC ACGACGGGC CGAACGTGGC AGGCTTCTTT TCGCGCCGGA 16551 AAAGCGCGAG TCTGGTGACT TGGCACCCA CGTGCAAGAAA AGCGCGGCCT AGACCACTGA ACCGTGGGTG CAGCGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCT GCGGCCAATC AAGCAGTGG CCCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCT GCGGCCAATC AAGCAGTGG CCCTTGGACCC 16701 GGGCCTCCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCATTGGACCC 16701 GGGCCTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACTGGA 16701 GGGCCTCCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACTGGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACTGGA 16701 GGGCCTCCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACTGGA 16701 GGGCCTCCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACGGACT 16801 GCGCTCCAGC CACAGAGGGC ATGCAGCGCG CGTCCAACAGAC 16801 GCGCTCCCCC CACAGAGGGC AGCGCGGCT GCCGGCCG CGTCCAACAGAC 16801 GCGCTGCCCC CACAGAGGGC ATGCACCCCC GCCGCCCCCCCCCC | 16101 | CCAGGTCATC G | CGCCGGAGA CGCGGCCTCT | TCTATGGCCC AGATACCGGG | CCCGAAGAAG GGGCTTCTTC | GAAGAGCAGG CTTCTCGTCC |
| CTACTACTTG AACTGCTGCT CCACCTTGAC GACGTGCGAT GGCGCGGGTC 16251 GCGACGGGTA CAGTGGAAAG GTCGACGCGT AAAACGTGTT TTGCGACCCG CGCTGCCCAT GTCACCTTTC CAGCTGCGA TTTTGCACAA AACGCTGGGC 16301 GCACCACCGT AGTCTTTACG CCCGGTGAGC GCTCCACCCG CACCTACAAG CGTGGTGGCA TCAGAAATGC GGGCCACTCG CGAGGTGGGC GTGGATGTTC 16351 CGCGTGTATG ATGAGGTGTA CGGCGACGAG GACCTGCTTG AGCAGGCCAA GCGCACATAC TACTCCACAT GCCGCTGCTC CTGGACGAAC TCGTCCGGTT 16401 CGAGCGCCTC GGGGAGTTTG CCTACGGAAA GCGGCATAAG GACATGCTGG GCTCGCGGAG CCCCTCAAAC GGATGCCTTT CGCCGTATTC CTGTACGACC 16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCGTAACA GCAACGGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGCCTAACA GCAACGGCGA CCTGCCCCG CGTTGCACCG TCCGAAGAAA AGCGCGGCCT GACGTCGTCC ACGACGGCC CGAACGTGC AGCCTTCTTT TCGCGCCTGA 16501 CTGCAGCAGG TCTGGTGACT TGGCACCCAC CGTGCAGCTA ATGGTACCCA TTTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACCTCGAC TACCATGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG 16651 CTGGAGCCCG ACGGAGAGAT GTCTTGGAAA 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCCGGACCT 16701 GGGCGTGCAG ACCGTGGACG TCCAGGCCAATC AAGCAGGTGG CGCCCGGACCT 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCCAGTA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACGGTAC 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT ACCACCAGTA 16701 CGCGCCCCCC CACAGAGGGC ATGCAGCCGC CACCACCAGC CGCCACCACCACCACCACCACCACCACCACCACCACCACC | 16151 | ATTACAAGCC C | CCGAAAGCTA GCTTTCGAT | AAGCGGGTCA TTCGCCCAGT | AAAAGAAAAA TTTTCTTTTT | GAAAGATGAT CTTTCTACTA |
| CGCTGCCCAT GTCACCTTTC CAGCTGCGCA TTTTGCACAA AACGCTGGGC 16301 GCACCACCGT AGTCTTTACG CCCGGTGAGC GCTCCACCCG CACCTACAAG CGTGGTGGCA TCAGAAATGC GGGCCACTCG CGAGGTGGGC GTGGATGTTC 16351 CGCGTGTATG ATGAGGTGTA CGGCGACGAG GACCTGCTTG AGCAGGCCAA GCGCACATAC TACTCCACAT GCCGCTGCTC CTGGACGAAC TCGTCCGGTT 16401 CGAGCGCCTC GGGGAGTTTG CCTACGGAAA GCGCCATAAG GACATGCTGG GCTCGCGGAG CCCCTCAAAC GGATGCCTTT CGCCGTATTC CTGTACGACC 16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCCGTAACA GCAACGGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGCCATTGT 16501 CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCCCGGCCT GACGTCGTCC ACGACGGGCG CGAACGTGGC AGGCTTCTTT TCGCGCCGA 16551 AAAGCGCGAG TCTGGTGACT TGGCACCCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGAGA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCCGGACT 16701 GGGCGTGCAG ACCGTGGACG TCCAGGACATC AAGCAGGTGG CGCCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA 16701 GGGCTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA 16701 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA 16801 GCGGTGGCG ATGCCGCGT GCAGGCGTC GCTGCGCCC CGTCCAACGGGT 16801 GCGGTGGCG ATGCCGCGGT GCAGGCGGTC GCTGCGCCC CGCCACCGCC CACCGGGGCC CCACCGGCC CCACCGGCC CCACCGGCC CCACCGCC CACCGGGGGCC CCACCGCCC CACCGGGGGGCC CCACCGCCC CACCGCCCCCC CACCGCCC CCACCGCC CCACCGCC CCACCGCC CCACCGCC CCACCGCC CCACCGCC CCACCGCC CCACCGCCC CCACCGCC CCACCGCC CCACCGCCC CCACCGCCC CCACCGCCC CCACCGCCC CCACCGCC CCACCGCC CCACCGCCC CCACCGCC CCACCGCCC CCACCGCC CCACCG | 16201 | GATGATGAAC T | TTGACGACGA AACTGCTGCT | GGTGGAACTG CCACCTTGAC | CTGCACGCTA GACGTGCGAT | CCGCGCCCAG GGCGCGGGTC |
| CGTGGTGGCA TCAGAAATGC GGGCCACTCG CGAGGTGGGC GTGGATGTTC 16351 CGCGTGTATG ATGAGGTGTA CGGCGCACGAG GACCTGCTTG AGCAGGCCAA GCGCACATAC TACTCCACAT GCCGCTGCTC CTGGACGAAC TCGTCCGGTT 16401 CGAGCGCCTC GGGGAGTTTG CCTACGGAAA GCGGCATAAG GACATGCTGG GCTCGCGGAG CCCCTCAAAC GGATGCCTTT CGCCGTATTC CTGTACGACC 16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCGTAACA GCAACGGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGGCATTGT 16501 CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCGCGGCCT GACGTCGTCC ACGACGGCG CGAACGTGGC AGGCTTCTTT TCGCGCCCGA 16551 AAAGCGCGAG TCTGGTGACT TGGCACCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGCCT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCCTCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGCAGACACA AAACGTCCCC GCTGCCCTA 16751 TTGCCACCGC CACAGAGGGC ATGCACCAGT ACCCTCGGCC GCTCCAACAGTA CCCGCACCGC CACAGAGGGC ATGCAGCGGTC GCTGCGCCC GCTCCAAGAC 16801 GCGGTGGCGG ATGCCGCGT GCAGGCGGTC GCTGCGCCG GCACCTCCA 16851 CTCTACGGAG GTGCAAACGG ACCCTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGCACCTA CAAAGCGCCAA AGTCCGGGGGGC 16801 GCGCCCCCCC CCGCTTCGAGG AACTACGGCG CCGCCAGCGC GCAACCGCCGC 16801 GCGCCCCCCC CCGCTTCGAGG AACTACGGCGC CCGCCAACCGCC GCCAACCGCCCCCCCCCC | 16251 | GCGACGGGTA (CGCTGCCCAT (| CAGTGGAAAG GTCACCTTTC | GTCGACGCGT CAGCTGCGCA | AAAACGTGTT TTTTGCACAA | TTGCGACCCG AACGCTGGGC |
| GCGCACATAC TACTCCACAT GCCGCTGCTC CTGGACGAC TCGTCCGGTT 16401 CGAGCGCCTC GGGGAGTTTG CCTACGGAAA GCGGCATAAG GACATGCTGG GCTCGCGGAG CCCCTCAAAC GGATGCCTTT CGCCGTATTC CTGTACGACC 16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCGTAACA GCAACGGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGGCATTGT 16501 CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCGCGGCCT GACGTCGTCC ACGACGGGCG CGAACGTGGC AGGCTTCTTT TCGCGCCGGA 16551 AAAGCGCGAG TCTGGTGACT TGGCACCCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CCAACGGAGT 16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCC GCAACGGAGT 16801 GCGGTGGCG ATGCCGCGCA CGTCCGCCA CGACGCCGC GCAACGGAGT 16801 CCCCCCCCCC CACCGTTTGCAGG AACCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACCGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16801 CCCCCCCCCC CCCCTTTCGAGG AACCGTGGGC CCGCCAACGCAC AGTCGGGGGG 16801 CCCCCCCCCC CCCCTTTCGAGG AACCGTGGGC CCGCCAACGCCCCCCCCCC | 16301 | GCACCACCGT / | AGTCTTTACG TCAGAAATGC | CCCGGTGAGC GGGCCACTCG | GCTCCACCCG CGAGGTGGGC | CACCTACAAG GTGGATGTTC |
| GCTCGCGGAG CCCCTCAAAC GGATGCCTTT CGCCGTATTC CTGTACGACC 16451 CGTTGCCGCT GGACGAGGGC AACCCAACAC CTAGCCTAAA GCCCGTAACA GCAACGGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGGCATTGT 16501 CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCGCGGCCT GACGTCGTCC ACGACGGGGC CGAACGTGGC AGGCTTCTTT TCGCGCCGGA 16551 AAAGCGCGAG TCTGGTGACT TGGCACCCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGG TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CCAACGGAGT 16801 GCGGTGGCG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGCCAACGGAGT 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG | 16351 | CGCGTGTATG GCGCACATAC | ATGAGGTGTA TACTCCACAT | CGGCGACGAG GCCGCTGCTC | GACCTGCTTG CTGGACGAAC | AGCAGGCCAA TCGTCCGGTT |
| GCAACGCGA CCTGCTCCCG TTGGGTTGTG GATCGGATTT CGGGCATTGT 16501 CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCGCGGCCT GACGTCGTCC ACGACGGGCG CGAACGTGGC AGGCTTCTTT TCGCGCCCGA 16551 AAAGCGCGAG TCTGGTGACT TGGCACCCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC 16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC CGCCACCGCC TACGGCGCCA CGTCCGCCAG CGACGCCGGC GCAGGTTCTG 16801 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16801 CCCGCCCGCG CCGTTCGAGG AAGTACCGCC CCGCCAGCGC GCTACTGCCCC | 16401 | CGAGCGCCTC GCTCGCGGAG | GGGGAGTTTG CCCCTCAAAC | CCTACGGAAA GGATGCCTTT | GCGGCATAAG CGCCGTATTC | GACATGCTGG CTGTACGACC |
| CTGCAGCAGG TGCTGCCCGC GCTTGCACCG TCCGAAGAAA AGCGCGGGCCT GACGTCGTCC ACGACGGGCG CGAACGTGGC AGGCTTCTTT TCGCGCCCGGA 16551 AAAGCGCCGAG TCTGGTGACT TGGCACCCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGGT GCACGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACCGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CGAACCGGAGT 16801 GCGTGCCGC CACAGAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGAGTCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGAGTCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG | 16451 | CGTTGCCGCT GCAACGGCGA | GGACGAGGGC CCTGCTCCCG | AACCCAACAC TTGGGTTGTG | CTAGCCTAAA GATCGGATTT | GCCCGTAACA CGGGCATTGT |
| 16551 AAAGCGCGAG TCTGGTGACT TGGCACCCAC CGTGCAGCTG ATGGTACCCA TTTCGCGCTC AGACCACTGA ACCGTGGGTG GCACGTCGAC TACCATGGGT 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CCAACGGAGT 16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CCACCGCC CGCCACCGCC TACGGCGCCA CGTCCGCCAG CGACGCCGCAAGAC 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGG 16801 GCCGCCCGCG CCGTTCGAGG AAGTACGGCG CCGCCAGCGC GCTACTGCCC | 16501 | CTCCAGCAGG | TGCTGCCCGC | GCTTGCACCG | TCCGAAGAAA | AGCGCGGCCT |
| 16601 AGCGCCAGCG ACTGGAAGAT GTCTTGGAAA AAATGACCGT GGAACCTGGG TCGCGGTCGC TGACCTTCTA CAGAACCTTT TTTACTGGCA CCTTGGACCC 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CCAACGGAGT 16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16801 CCCCCCGCG CCGTTCGAGG AAGTACCGCG CCGCCAGCGC GCTACTGCCC | 16551 | AAAGCGCGAG TTTCGCGCTC | TCTGGTGACT AGACCACTGA | TGGCACCCAC ACCGTGGGTG | CGTGCAGCTG GCACGTCGAC | ATGGTACCCA TACCATGGGT |
| 16651 CTGGAGCCCG AGGTCCGCGT GCGGCCAATC AAGCAGGTGG CGCCGGGACT GACCTCGGGC TCCAGGCGCA CGCCGGTTAG TTCGTCCACC GCGGCCCTGA 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CCAACGGAGT 16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC CGCCACCGCC TACCGCCCAG CGACGCCGGC GCAGGTTCTG 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG | 16601 | Λ ር Ր <mark>ር</mark> Ր Λ <u>ር</u> Ր Γ | ACTGGAAGAT | GTCTTGGAAA | AAATGACCGT | GGAACCTGGG |
| 16701 GGGCGTGCAG ACCGTGGACG TTCAGATACC CACTACCAGT AGCACCAGTA CCCGCACGTC TGGCACCTGC AAGTCTATGG GTGATGGTCA TCGTGGTCAT 16751 TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CCAACGGAGT 16801 GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC CGCCACCGCC TACGGCGCCA CGTCCGCCAG CGACGCCGGC GCAGGTTCTG 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG | 16651 | CTCGACCCCG | ACCTCCCCT | CCGGCCAATC | : AAGCAGGTGG | CGCCGGGACT |
| TTGCCACCGC CACAGAGGGC ATGGAGACAC AAACGTCCCC GGTTGCCTCA AACGGTGGCG GTGTCTCCCG TACCTCTGTG TTTGCAGGGG CCAACGGAGT GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC CGCCACCGCC TACGGCGCCA CGTCCGCCAG CGACGCCGGC GCAGGTTCTG CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG | 16701 | CCCCCTCCAG | ACCGTGGACG | : TTCAGATACC | CACTACCAGI | AGCACCAGTA |
| GCGGTGGCGG ATGCCGCGGT GCAGGCGGTC GCTGCGGCCG CGTCCAAGAC CGCCACCGCC TACGGCGCCA CGTCCGCCAG CGACGCCGGC GCAGGTTCTG 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16801 GCCCCCGCG CCGTTCGAGG AAGTACGGCG CCGCCAGCGC GCTACTGCCC | 16751 | TTCCCACCCC | CACAGAGGG | : ATGGAGACAC | : AAACGTCCC | GGTTGCCTCA |
| 16851 CTCTACGGAG GTGCAAACGG ACCCGTGGAT GTTTCGCGTT TCAGCCCCCC GAGATGCCTC CACGTTTGCC TGGGCACCTA CAAAGCGCAA AGTCGGGGGG 16851 CCCCCCGC CCGTTCGAGG AAGTACGGCG CCGCCAGCGC GCTACTGCCC | 16801 | CCCCTCCCGG | ∆TGCCGCGGT | GCAGGCGGTC | C GCTGCGGCC(| G CGTCCAAGAC |
| 16001 GCCCCCCCC CCGTTCGAGG AAGTACGGCG CCGCCAGCGC GCTACTGCCC | 16851 | CTCTACCCAC | CTCC A A A C G (| ACCCGTGGA | r GTTTCGCGT | T TCAGCCCCCC |
| | 16901 | ccccccccc | CCGTTCGAG | AAGTACGGC | G CCGCCAGCG | C GCTACTGCCC |

| 16951 | GAATATGCCC TACATCCTTC CATTGCGCCT ACCCCCGGCT ATCGTGGCTA CTTATACGGG ATGTAGGAAG GTAACGCGGA TGGGGGCCGA TAGCACCGAT |
|-------|--|
| 17001 | CACCTACCGC CCCAGAAGAC GAGCAACTAC CCGACGCCGA ACCACCACTG GTGGATGGCG GGGTCTTCTG CTCGTTGATG GGCTGCGGCT TGGTGGTGAC |
| 17051 | GAACCCGCCG CCGCCGTCGC CGTCGCCAGC CCGTGCTGGC CCCGATTTCC CTTGGGCGGC GGCGCAGCG GCAGCGGTCG GGCACGACCG GGGCTAAAGG |
| 17101 | GTGCGCAGGG TGGCTCGCGA AGGAGGCAGG ACCCTGGTGC TGCCAACAGC CACGCGTCCC ACCGAGCGCT TCCTCCGTCC TGGGACCACG ACGGTTGTCG |
| 17151 | GCGCTACCAC CCCAGCATCG TITAAAAGCC GGTCTTTGTG GTTCTTGCAG CGCGATGGTG GGGTCGTAGC AAATTTTCGG CCAGAAACAC CAAGAACGTC |
| 17201 | ATATGGCCCT CACCTGCCGC CTCCGTTTCC CGGTGCCGGG ATTCCGAGGA TATACCGGGA GTGGACGGCG GAGGCAAAGG GCCACGGCCC TAAGGCTCCT |
| 17251 | AGAATGCACC GTAGGAGGGG CATGGCCGGC CACGGCCTGA CGGGCGGCAT TCTTACGTGG CATCCTCCCC GTACCGGCCG GTGCCGGACT GCCCGCCGTA |
| 17301 | GCGTCGTGCG CACCACCGGC GGCGGCGCGC GTCGCACCGT CGCATGCGCG CGCAGCACGC GTGGTGGCCG CCGCCGCGC CAGCGTGGCA GCGTACGCGC |
| 17351 | GCGGTATCCT GCCCCTCCTT ATTCCACTGA TCGCCGCGGC GATTGGCGCC CGCCATAGGA CGGGGAGGAA TAAGGTGACT AGCGGCGCCG CTAACCGCGG |
| 17401 | GTGCCCGGAA TTGCATCCGT GGCCTTGCAG GCGCAGAGAC ACTGATTAAA CACGGGCCTT AACGTAGGCA CCGGAACGTC CGCGTCTCTG TGACTAATTT |
| 17451 | AACAAGTTGC ATGTGGAAAA ATCAAAATAA AAAGTCTGGA CTCTCACGCT TTGTTCAACG TACACCTTTT TAGTTTTATT TTTCAGACCT GAGAGTGCGA |
| 17501 | CGCTTGGTCC TGTAACTATT TTGTAGAATG GAAGACATCA ACTTTGCGTC GCGAACCAGG ACATTGATAA AACATCTTAC CTTCTGTAGT TGAAACGCAG |
| 17551 | TCTGGCCCCG CGACACGGCT CGCGCCCGTT CATGGGAAAC TGGCAAGATA AGACCGGGC GCTGTGCCGA GCGCGGGCAA GTACCCTTTG ACCGTTCTAT |
| 17601 | TCGGCACCAG CAATATGAGC GGTGGCGCCT TCAGCTGGGG CTCGCTGTGG AGCCGTGGTC GTTATACTCG CCACCGCGGA AGTCGACCCC GAGCGACACC |
| 17651 | AGCGGCATTA AAAATITCGG TTCCACCGTT AAGAACTATG GCAGCAAGGC TCGCCGTAAT TTTTAAAGCC AAGGTGGCAA TTCTTGATAC CGTCGTTCCG |
| 17701 | GACCTTGTCG TCGTGTCCGG TCTACGACTC CCTATICAAC TTTCTCGTT |
| 17751 | ATTTCCAACA AAAGGTGGTA GATGGCCTGG CCTCTGGCAT TAGCGGGGTCTAAAGGTTGT TTTCCACCAT CTACCGGACC GGAGACCGTA ATCGCCCCAC |

| 17801 GTGGACCTGG CCAACCAGGC AGTGCAAAAT AAGATTAACA GTAAGCTTGA CACCTGGACC GGTTGGTCCG TCACCGTTTTA TTCTAATTGT CATTCGAACT 17851 TCCCCGCCCT CCCGTAGAGG AGCCTCACC GGCCGTGGAG ACAGTGTCTC AGGGGCGGGA GGGCATCTCC TCGGAGGTGG CCGGCACCTC TGTCACAGAG 17901 CAGAGGGCGG TGGCGAAAAG CGTCCGCGCC CCGACAGGGA AGAAACTCTG GTCTCCCCGC ACCGCTTTTC GCAGGCGGG GGCTGTCCCT TCTTTGAGAC 17951 GTGACGAAA TAGACGAGCC TCCCTCGTAC GAGGAGGCAA TAAAGCAAGG 18001 CCTGCCACC ACCGCTCCCA AGGGAGCATG CTCCTCCGTG ATTCGTTCGTTCC 18001 AGACACACC CGTAACGCTG AGCGGGGTA CGGTACCGGG GGACAGGGCAC TAAAGCAAGG 18051 AGCACACCC CGTAACGCTG GACCGGGGTA CCGATGGCCT CACGACCCGG 18051 AAACCTGTGG TGGCCAGGGT AGCGGGGTA CGGTACCGGA GTGCTGGGCC 18101 AAACCTGTGC TGCCAGGCCC GACCGCGGTA CGGAGGGCAC GTGGGCACGGG 18101 AAACCTGTGC TGCCAGGCCC GACCGCGTT GTTGTAACCC GTCTAGCCG 1717GGACAGG ACGGTCCGGG CTGGCCGAA CAACATTGGG CAGGATCGGC 18201 CCAGTGCAA CTGGCAAAGC GCGCGCAC CAACATTGGG CAGGATCGGC 18201 CCAGTGCAA CTGGCAAAGC GCGCCCACG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTTG CGGCCCGTAG GGCCACGGAC TGCGGCACG ATGCTTCT CGTAGCACC AGACCCCCAC 18251 CAATCCCTGA AGCGCGACG ATGCTTCTG TGTAACACC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGG TCTGGGGGTG 18301 TGTCATGTAT GCGCCCACG ATGCTTCTCA ACACTACACT | | | | | | |
|--|-------|------------------------------|--------------------------|----------------------------|------------------------------|------------------------------|
| AGGGCGGGA GGGCATCTCC TCGGAGGTGG CCGGCACACTC IGTOCAGAGG 17901 CAGAGGGGCG TGGCGAAAAG CGTCCGCGCC CCGACAGGGA AGAAACTCTG GTCTCCCCGC ACCGCTTTTC GCAGGCGCGG GGCTGTCCCT TCTTTGAGAC 17951 GTGACGCAAA TAGACGAGCC TCCCTCGTAC GAGGAGGCAC TAAAGCAAGG 17951 CCTGCCCACC ACCCGTCCCA TCGCGCCCAT GACTCCCGTG ATTTCGTTCC 18001 CCTGCCCACC ACCCGTCCCA TCGCGCCCAT GGCTACCGGA GTGCTGGGCC GGACGGGTGG TGGGCAGGGT AGCGCGCGTA CCCGATGGCCT CACGACCCGG 18051 AGCACACACC CGTAACGCTG GACCTGCCTC CCCCCGCCGA CACCCAGCAG TCGTGTGTGG GCATTGCGAC CTGGACGGAG GGGGGCGGCT GTGGGTCGTC 18101 AAACCTGTGC TGCCAGGCCC GACCGCCGTT GTTGTAACCC GTCCTAGCCG TTTTGGACACG ACGGTCCGGG CTGGCGGCAA CAACATTGGG CAGGATCGGC 18151 CGCGTCCCTG CGCCGCGCG CAGCGGGCAA CAACATTGGG CAGGATCGGC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTTG CGCCCGCACCAC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGGG TCTGGGGGTG 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACAC GCCGGGCATC 18301 TGTCATGTAT GCGTCCATGT CGCGCCGCAAA TACGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCGCGCAGA GAACCCCCAC 18351 CGCCCGCTTT CCAAGATGC TACCACTAGA GCATCGTGG TCGGCGCGCGAAAA GGTTCTACCAGAAAC GCGCGCGCGAAAA GGTTCTACCAAAAACAC CAGCATACACAC GCCGCGCAAAAACACTACACAAAACACAAAAACAAAAAACAAAAAA | 17801 | GTGGACCTGG C CACCTGGACC G | CAACCAGGC GTTGGTCCG | AGTGCAAAAT TCACGTTTTA | AAGATTAACA TTCTAATTGT | GTAAGCTTGA CATTCGAACT |
| TCTCCCCGC ACCGCTTTC GCAGGCGCGG GGCTGTCCCT TCTTTGAGAC 17951 GTGACGCAAA TAGACGAGCC TCCCTCGTAC GAGGAGGCAC TAAAGCAAGG CACTGCGTTT ATCTGCTCGG AGGGAGCATG CTCCTCCGTG ATTTCGTTCC 18001 CCTGCCCACC ACCCGTCCCA TCGCGCCCAT GGCTACCGGA GTGCTGGGCC GGACGGGTGG TGGGCAGGGT AGCGCGGGTA CCGATGGCCT CACGACCCGG 18051 AGCACACACC CGTAACGCTG GACCTGCCTC CCCCCGCCGA CACCCAGCAG TCGTGTGTGG GCATTGCGAC CTGGACGGAG GGGGGCGGCT GTGGGTCGTC 18101 AAACCTGTGC TGCCAGGCCC GACCGCGTT GTTGTAACCC GTCCTAGCCG TTTGGACACG ACGGTCCGGC CTGGCGCAA CAACATTGGG CAGGATCGGC 18151 CGCGTCCCTG CGCCGCCGC CCAGCGGTCC GCGATCGTTG CGGCCCGTAG GCGCAGGGAC GCCGCCGCC CCAGCGGTCC GCGATCGTTG CGGCCCGTAG GCGCAGGGAC GCGGCGCGC GTCGCCAGG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGCAA ACCGCTTTCG TGTGACTTGT CGTAGCACC AGACCCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG 18351 CGCCCGCTTT CCAAGATGGC TACCAAGAC TCCGGTGCGCC 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GGAGCTGCTG AGCCGCCGCG 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGACAC TCCGCCGGCCCC 18451 TGCAGTTTGC CCAGCGCCC GAGACGTACT TCAGCACGAC TCCGCGGCCGC 18451 TGCAGTTTGC CCGGCCCACC GAGACGTACT TCAGCACGAC TCCGGCGCCGC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTACAACG GGCCCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCCGCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTTTGGGT GCCACCCGCG ATGCCTCGGA CCTCGGAACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA 18551 GCGTTTGACG CTGCGGTTCA TCCCTTGGAA CCTGGAGAT ACTGCTGAC 18551 CGCCTTTGACG CTGCGGTTCA TCCCTTGGAA CCTGAACACG TCGCCAAACTG CCCCAAACTG CCCCCAAACTG CCCCCAAACTG CCCCAAACTG CCCCCAAACTG CCCCAAACTG CCCCAAACTG CCCCCAAACTG CCCCCAAACTG CCCCCAAACTG CCCCC | 17851 | TCCCCGCCCT C | CCGTAGAGG GGCATCTCC | AGCCTCCACC TCGGAGGTGG | GGCCGTGGAG CCGGCACCTC | ACAGTGTCTC TGTCACAGAG |
| CACTGCGTTT ATCTGCTCGG AGGGAGCATG CTCCTCCGTG ATTTCGTTCC 18001 CCTGCCCACC ACCCGTCCCA TCGCGCCCAT GGCTACCGGA GTGCTGGGCC GGACGGGTGG TGGGCAGGGT AGCGCGGGTA CCGATGGCCT CACGACCCGG 18051 AGCACACACC CGTAACGCTG GACCTGCCTC CCCCGCCGA CACCCAGCAG TCGTTGTGGG GCATTGCGAC CTGGACGGAG GGGGGCGGCT GTGGGTCGTC 18101 AAACCTGTGC TGCCAGGCCC GACCGCCGTT GTTGTAACCC GTCCTAGCCG TTTTGGACACG ACGGTCCGGG CTGGCGGCAA CAACATTGGG CAGGATCGGC 18151 CGCGTCCCTG CGCCGCGCCG CCAGCGGTCC GCGATCGTTG CGGCCCGTAG GCGCAGGGAC GCGCCGCGC GGTCGCCAGG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGG TCTGGGGGTG GTTAGGGACT TCGCGGCCACC TTGGACACCC AGACCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCCCCCGCG ACAGTACACA GCCGCGGGAAA GGTTCTACCA GCGGCGGTCC TCCGACGAC TCCGGCGCGCGCGCGCGCGCGCGCGCGAAACACACACACA | 17901 | CAGAGGGGCG T | GGCGAAAAG ACCGCTTTTC | CGTCCGCGCC GCAGGCGCGG | CCGACAGGGA GGCTGTCCCT | AGAAACTCTG TCTTTGAGAC |
| AGCACGACTGG TGGGCAGGGT AGCGCGGGTA CCGATGGCCT CACGACCCGG 18051 AGCACACACC CGTAACGCTG GACCTGCCTC CCCCCGCGA CACCCAGCAG TCGTGTTGTGG GCATTGCGAC CTGGACGGAG GGGGGCGGCT GTGGGTCGTC 18101 AAACCTGTGC TGCCAGGCCC GACCGCCGTT GTTGTAACCC GTCCTAGCCG TTTTGGACACG ACGGTCCGGG CTGGCGGCAA CAACATTGGG CAGGATCGGC 18151 CGCGTCCCTG CGCCGCGCCG CCAGCGGTCC GCGATCGTTG CGGCCCGTAG GCGCAGGGAC GCGGCGCGG GGTCGCCAGG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGG TCTGGGGGTG GGTCACCGTT GACCGTTTCG TGTGACTTGT CGTAGCACC AGACCCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGGCTGC TACGAAGACT ATCGATTGAC CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG ACAGTACAAC GCGCGGGAAA GGTTCTACCG ATGGGGAAGC TCGGCGGGCGC 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA GCGGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACCAGAAC AGCCCCGCG CTCGCAGACC TCGGGGGCCC TACCACACAC ACGCTCGAA AGCCCCGACC AGCCCCGGC CTCGCAAACG GGCCCGACC TCGCAGACCT TCAGCACACA AGCCCCCACC CCCGGCCCCC CACCGGCCCCC CACCGCCCCCC CACCGCCCCCCCC | 17951 | GTGACGCAAA T | TAGACGAGCC ATCTGCTCGG | TCCCTCGTAC AGGGAGCATG | GAGGAGGCAC CTCCTCCGTG | TAAAGCAAGG ATTTCGTTCC |
| TCGTGTGTGG GCATTGCGAC CTGGACGGAG GGGGGCGGCT GTGGGTCGTC 18101 AAACCTGTGC TGCCAGGCCC GACCGCCGTT GTTGTAACCC GTCCTAGCCG TTTTGGACACG ACGGTCCGGG CTGGCGGCAA CAACATTGGG CAGGATCGGC 18151 CGCGTCCCTG CGCCGCCGC CCAGCGGTCC GCGATCGTTG CGGCCCGTAG GCGCAGGGAC GCGGCGCGC GGTCGCCAGG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGGG TCTGGGGGTG GGTCACCGTT GACCGTTTCG TGTGACTTGT CGTAGCACCC AGACCCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG ACAGTACATA CGCAGGTACA GCGCCGAGA GGAGCTGCTG ACCGCGCGCGCG CGCGGGCGAAA GGTTCTACCG ATGGGGAAGC TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAAACG GGCGCCGCCC TACGCACGA GTGACCTGAA ATTGTTCAAA 18501 AGAAACCCCA CGGTGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCT CACTGAGGAT TATTGTTCAAA 18501 AGAAACCCCA CGGTGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCT CACTGAGGAT TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCACC CTAGCTGTGG GTGATAACCG TGTGCTGGAA | 18001 | CCTGCCCACC A | ACCCGTCCCA TGGGCAGGGT | TCGCGCCCAT AGCGCGGGTA | GGCTACCGGA CCGATGGCCT | GTGCTGGGCC CACGACCCGG |
| TTTGGACACG ACGGTCCGGG CTGCGCGCAA CAACATTGGG CAGGATCGGC 18151 CGCGTCCCTG CGCCGCGCGC CCAGCGGTCC GCGATCGTTG CGGCCCGTAG GCGCAGGGAC GCGGCGCGC GGTCGCCAGG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGGG TCTGGGGGTG GGTCACCGTT GACCGTTTCG TGTGACTTGT CGTAGCACCC AGACCCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG ACAGTACATA CGCAGGTACA GCGGCGGTCT CCTCGACGAC TCGGCGGCGC 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA GCGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACAGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCCCGGTGG CTCTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGGT CACTGGAGT TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGACT CCCAAAACCC CGGGTTCAC CCAGGGTCCC TACCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAAACTGC GCCGTTCAC CCAGGTGGG CTGACCACCG TGGCCCCTCCTA TGACCCCTCTA TGACCCATGACT CCCACAAACCC CCGCGTTCACC CTAGCTGTGG CTGGACCACCC TTGCCCACCT TTGACCCCTTA TGACCCCTCTA TGACCCCTCCTA TGACCCCCTCTA TGACCCCCTCCTA TGACCCCCCTCCTA TGACCCCCTCCTA TGACCCCCTCCTA TGACCCCCTCCTA TGACCCCCCTCCTA TGACCCCCCCCCC | 18051 | AGCACACACC (TCGTGTGTGG (| CGTAACGCTG GCATTGCGAC | GACCTGCCTC CTGGACGGAG | CCCCCGCCGA GGGGGCGGCT | CACCCAGCAG GTGGGTCGTC |
| GCGCAGGGAC GCGCGCGGC GGTCGCCAGG CGCTAGCAAC GCCGGGCATC 18201 CCAGTGGCAA CTGGCAAAGC ACACTGAACA GCATCGTGGG TCTGGGGGTG GGTCACCGTT GACCGTTTCG TGTGACTTGT CGTAGCACCC AGACCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG ACAGTACATA CGCAGGTACAA GCGGCGGGTCT CCTCGACGAC TCGGCGGGCGC 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA GCGGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCT CACTGGAGAT ACTGCGTACT TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCAC CCCTGTGGA CCGTGAGAAT ACTGCGTACT ACGCACAGA ACCGGTCCCAAACTGC GACGCCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18101 | AAACCTGTGC | TGCCAGGCCC ACGGTCCGGG | GACCGCCGTT CTGGCGGCAA | GTTGTAACCC CAACATTGGG | GTCCTAGCCG CAGGATCGGC |
| GGTCACCGTT GACCGTTTCG TGTGACTTGT CGTAGCACCC AGACCCCAC 18251 CAATCCCTGA AGCGCCGACG ATGCTTCTGA TAGCTAACGT GTCGTATGTG GTTAGGGACT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGTAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG ACAGTACATA CGCAGGTACA GCGGCGGTCT CCTCGACGAC TCGGCGGCGC 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA GCGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18151 | CGCGTCCCTG GCGCAGGGAC | CGCCGCGCCG GCGGCGCGC | CCAGCGGTCC GGTCGCCAGG | GCGATCGTTG GCGCTAGCAAC | CGGCCCGTAG GCCGGGCATC |
| TGTCATGAT TCGCGGCTGC TACGAAGACT ATCGATTGCA CAGCATACAC 18301 TGTCATGAT GCGTCCATGT CGCCGCCAGA GGAGCTGCTG AGCCGCCGCG ACAGTACATA CGCAGGTACA GCGGCGGTCT CCTCGACGAC TCGGCGGCGC 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA GCGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18201 | CCAGTGGCAA GGTCACCGTT | CTGGCAAAGC GACCGTTTCG | ACACTGAACA TGTGACTTGT | GCATCGTGGG CGTAGCACCC | TCTGGGGGTG AGACCCCCAC |
| ACAGTACATA CGCAGGTACA GCGGCGGTCT CCTCGACGAC TCGGCGGCGC 18351 CGCCCGCTTT CCAAGATGGC TACCCCTTCG ATGATGCCGC AGTGGTCTTA GCGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18251 | CAATCCCTGA GTTAGGGACT | AGCGCCGACG TCGCGGCTGC | ATGCTTCTGA TACGAAGACT | A TAGCTAACGT T ATCGATTGCA | GTCGTATGTG CAGCATACAC |
| GCGGGCGAAA GGTTCTACCG ATGGGGAAGC TACTACGGCG TCACCAGAAT 18401 CATGCACATC TCGGGCCAGG ACGCCTCGGA GTACCTGAGC CCCGGGCTGG GTACGTGTAG AGCCCGGTCC TGCGGAGCCT CATGGACTCG GGGCCCGACC 18451 TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18301 | TGTCATGTAT ACAGTACATA | GCGTCCATGT CGCAGGTACA | CGCCGCCAG/ GCGGCGGTCT | A GGAGCTGCTG T CCTCGACGAC | AGCCGCCGCG TCGGCGGCGC |
| TGCAGTTTGC CCGCGCCACC GAGACGTACT TCAGCCTGAA TAACAAGTTT ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCATCTTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACTCGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18351 | CGCCCGCTTT GCGGGCGAAA | CCAAGATGGC GGTTCTACCG | TACCCCTTCG ATGGGGAAGG | ATGATGCCGC TACTACGGCC | AGTGGTCTTA TCACCAGAAT |
| ACGTCAAACG GGCGCGGTGG CTCTGCATGA AGTCGGACTT ATTGTTCAAA 18501 AGAAACCCCA CGGTGGCGCC TACGCACGAC GTGACCACAG ACCGGTCCCA TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA | 18401 | CATGCACATC GTACGTGTAG | TCGGGCCAGG AGCCCGGTCC | ACGCCTCGG/ CTGCGGAGCC | A GTACCTGAGO T CATGGACTCO | CCCGGGCTGG GGGCCCGACC |
| TCTTTGGGGT GCCACCGCGG ATGCGTGCTG CACTGGTGTC TGGCCAGGGT 18551 GCGTTTGACG CTGCGGTTCA TCCCTGTGGA CCGTGAGGAT ACTGCGTACT CGCAAACTGC GACGCCAAGT AGGGACACCT GGCACTCCTA TGACGCATGA 18601 CCTACAACCC CCGGTTCACC CTAGCTGTGG GTGATAACCG TGTGCTGGAC | 18451 | TGCAGTTTGC ACGTCAAACG | CCGCGCCACO GGCGCGGTGO | GAGACGTAC GCTCTGCATG | T TCAGCCTGA A AGTCGGACT | TAACAAGTTT TATTGTTCAAA |
| CGCAAACTGC GACGCCAAGT AGGGACACCI GGCACTCCTA TGACGCATGA | 18501 | AGAAACCCCA TCTTTGGGGT | CGGTGGCGCC GCCACCGCGC | TACGCACGA ATGCGTGCT | C GTGACCACA G CACTGGTGT | G ACCGGTCCCA C TGGCCAGGGT |
| 18601 CGTACAAGGC GCGGTTCACC CTAGCTGTGG GTGATAACCG TGTGCTGGAC GCATGTTCCG CGCCAAGTGG GATCGACACC CACTATTGGC ACACGACCTC | 18551 | GCGTTTGACG CGCAAACTGC | CTGCGGTTC/ GACGCCAAG | A TCCCTGTGG T AGGGACACC | A CCGTGAGGA T GGCACTCCT | T ACTGCGTACT A TGACGCATGA |
| | 18601 | CGTACAAGGC GCATGTTCCG | GCGGTTCAC CGCCAAGTG | C CTAGCTGTG G GATCGACAC | G GTGATAACC C CACTATTGG | G TGTGCTGGAC C ACACGACCTG |

| 18651 | ATGGCTTCCA C | GTACTTTGA | CATCCGCGGC | GTGCTGGACA | GGGGCCCTAC |
|-------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | TACCGAAGGT G | CATGAAACT | GTAGGCGCCG | CACGACCTGT | CCCCGGGATG |
| 18701 | TTTTAAGCCC T | ACTCTGGCA TGAGACCGT | CTGCCTACAA GACGGATGTT | CGCCCTGGCT GCGGGACCGA | CCCAAGGGTG GGGTTCCCAC |
| 18751 | CCCCAAATCC T | TGCGAATGG ACGCTTACC | GATGAAGCTG CTACTTCGAC | CTACTGCTCT GATGACGAGA | TGAAATAAAC ACTTTATTTG |
| 18801 | CTAGAAGAAG A | AGGACGATGA CCTGCTACT | CAACGAAGAC GTTGCTTCTG | GAAGTAGACG CTTCATCTGC | AGCAAGCTGA TCGTTCGACT |
| 18851 | GCAGCAAAAA A | ACTCACGTAT FGAGTGCATA | TTGGGCAGGC AACCCGTCCG | GCCTTATTCT CGGAATAAGA | GGTATAAATA CCATATTTAT |
| 18901 | TTACAAAGGA (| GGGTATTCAA CCCATAAGTT | ATAGGTGTCG TATCCACAGC | AAGGTCAAAC TTCCAGTTTG | ACCTAAATAT TGGATTTATA |
| 18951 | GCCGATAAAA (| CATTTCAACC GTAAAGTTGG | TGAACCTCAA ACTTGGAGTT | ATAGGAGAAT TATCCTCTTA | CTCAGTGGTA GAGTCACCAT |
| 19001 | CGAAACAGAA A | ATTAATCATG TAATTAGTAC | CAGCTGGGAG GTCGACCCTC | AGTCCTAAAA TCAGGATTTT | AAGACTACCC TTCTGATGGG |
| 19051 | CAATGAAACC A | ATGTTACGGT TACAATGCCA | TCATATGCAA AGTATACGTT | AACCCACAAA TTGGGTGTTT | TGAAAATGGA ACTTTTACCT |
| 19101 | GGGCAAGGCA | TTCTTGTAAA | GCAACAAAAT | GGAAAGCTAG | AAAGTCAAGT |
| | CCCGTTCCGT | AAGAACATTT | CGTTGTTTTA | CCTTTCGATC | TTTCAGTTCA |
| 19151 | GGAAATGCAA | TTTTTCTCAA | CTACTGAGGC | AGCCGCAGGC | AATGGTGATA |
| | CCTTTACGTT | AAAAAGAGTT | GATGACTCCG | TCGGCGTCCG | TTACCACTAT |
| 19201 | ACTTGACTCC | TAAAGTGGTA | TTGTACAGTG | AAGATGTAGA | TATAGAAACC |
| | TGAACTGAGG | ATTTCACCAT | AACATGTCAC | TTCTACATCT | ATATCTTTGG |
| 19251 | CCAGACACTC | ATATTTCTTA | CATGCCCACT | ATTAAGGAAG | G GTAACTCACG |
| | GGTCTGTGAG | TATAAAGAAT | GTACGGGTGA | A TAATTCCTTC | CATTGAGTGC |
| 19301 | AGAACTAATG | GGCCAACAAT | CTATGCCCAA | A CAGGCCTAAT | TACATTGCTT |
| | TCTTGATTAC | CCGGTTGTTA | GATACGGGT | F GTCCGGATT/ | A ATGTAACGAA |
| 19351 | TTAGGGACAA | TTTTATTGGT | CTAATGTAT | T ACAACAGCA(| G GGGTAATATG |
| | AATCCCTGTT | AAAATAACCA | GATTACATAA | A TGTTGTCGT(| G CCCATTATAC |
| 19401 | GGTGTTCTGG | CGGGCCAAGO | ATCGCAGTTO | AATGCTGTT(| G TAGATTTGCA |
| | CCACAAGACC | GCCCGGTTCO | TAGCGTCAA | TTACGACAA | C ATCTAAACGT |
| 19451 | AGACAGAAAC | ACAGAGCTT | CATACCAGC | T TTTGCTTGA | T TCCATTGGTG |
| | TCTGTCTTTG | TGTCTCGAAA | GTATGGTCG | A AAACGAACT | A AGGTAACCAC |

| 19501 | ATAGAACCAG GTACTTTTCT ATGTGGAATC AGGCTGTTGA CAGCTATGAT TATCTTGGTC CATGAAAAGA TACACCTTAG TCCGACAACT GTCGATACTA |
|-------|--|
| 19551 | CCAGATGTTA GAATTATTGA AAATCATGGA ACTGAAGATG AACTTCCAAA GGTCTACAAT CTTAATAACT TTTAGTACCT TGACTTCTAC TTGAAGGTTT |
| 19601 | TTACTGCTTT CCACTGGGAG GTGTGATTAA TACAGAGACT CTTACCAAGG AATGACGAAA GGTGACCCTC CACACTAATT ATGTCTCTGA GAATGGTTCC |
| 19651 | TAAAACCTAA AACAGGTCAG GAAAATGGAT GGGAAAAAGA TGCTACAGAA ATTTTGGATT TTGTCCAGTC CTTTTACCTA CCCTTTTTCT ACGATGTCTT |
| 19701 | TTTTCAGATA AAAATGAAAT AAGAGTTGGA AATAATTTTG CCATGGAAAT AAAAGTCTAT TTTTACTTTA TTCTCAACCT TTATTAAAAC GGTACCTTTA |
| 19751 | CAATCTAAAT GCCAACCTGT GGAGAAATTT CCTGTACTCC AACATAGCGC GTTAGATTTA CGGTTGGACA CCTCTTTAAA GGACATGAGG TTGTATCGCG |
| 19801 | TGTATTTGCC CGACAAGCTA AAGTACAGTC CTTCCAACGT AAAAATTTCT ACATAAACGG GCTGTTCGAT TTCATGTCAG GAAGGTTGCA TTTTTAAAGA |
| 19851 | GATAACCCAA ACACCTACGA CTACATGAAC AAGCGAGTGG TGGCTCCCGG CTATTGGGTT TGTGGATGCT GATGTACTTG TTCGCTCACC ACCGAGGGCC |
| 19901 | GCTAGTGGAC TGCTACATTA ACCTTGGAGC ACGCTGGTCC CTTGACTATA CGATCACCTG ACGATGTAAT TGGAACCTCG TGCGACCAGG GAACTGATAT |
| 19951 | TGGACAACGT CAACCCATTT AACCACCACC GCAATGCTGG CCTGCGCTAC ACCTGTTGCA GTTGGGTAAA TTGGTGGTGG CGTTACGACC GGACGCGATG |
| 20001 | CGCTCAATGT TGCTGGGCAA TGGTCGCTAT GTGCCCTTCC ACATCCAGGT GCGAGTTACA ACGACCCGTT ACCAGCGATA CACGGGAAGG TGTAGGTCCA |
| 20051 | GCCTCAGAAG TTCTTTGCCA TTAAAAACCT CCTTCTCCTG CCGGGCTCAT CGGAGTCTTC AAGAAACGGT AATTTTTGGA GGAAGAGGAC GGCCCGAGTA |
| 20101 | ACACCTACGA GTGGAACTTC AGGAAGGATG TTAACATGGT TCTGCAGAGC TGTGGATGCT CACCTTGAAG TCCTTCCTAC AATTGTACCA AGACGTCTCG |
| 20151 | TCCCTAGGAA ATGACCTAAG GGTTGACGGA GCCAGCATTA AGTTTGATAG AGGGATCCTT TACTGGATTC CCAACTGCCT CGGTCGTAAT TCAAACTATC |
| 20201 | CATTTGCCTT TACGCCACCT TCTTCCCCAT GGCCCACAAC ACCGCCTCCA GTAAACGGAA ATGCGGTGGA AGAAGGGGTA CCGGGTGTTG TGGCGGAGGT |
| 20251 | CGCTTGAGGC CATGCTTAGA AACGACACCA ACGACCAGTC CTTTAACGAC GCGAACTCCG GTACGAATCT TTGCTGTGGT TGCTGGTCAG GAAATTGCTG |
| 20301 | TATCTCTCCG CCGCCAACAT GCTCTACCCT ATACCCGCCA ACGCTACCAA ATAGAGAGGC GGCGGTTGTA CGAGATGGGA TATGGGCGGT TGCGATGGTT |

| 20351 | CGTGCCCATA TCCATCCCCT CCCGCAACTG GGCGGCTTTC CGCGGCTGGG GCACGGGTAT AGGTAGGGGA GGGCGTTGAC CCGCCGAAAG GCGCCGACCC |
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| 20401 | CCTTCACGCG CCTTAAGACT AAGGAAACCC CATCACTGGG CTCGGGCTAC GGAAGTGCGC GGAATTCTGA TTCCTTTGGG GTAGTGACCC GAGCCCGATG |
| 20451 | GACCCTTATT ACACCTACTC TGGCTCTATA CCCTACCTAG ATGGAACCTT CTGGGAATAA TGTGGATGAG ACCGAGATAT GGGATGGATC TACCTTGGAA |
| 20501 | TTACCTCAAC CACACCTTTA AGAAGGTGGC CATTACCTTT GACTCTTCTG AATGGAGTTG GTGTGGAAAT TCTTCCACCG GTAATGGAAA CTGAGAAGAC |
| 20551 | TCAGCTGGCC TGGCAATGAC CGCCTGCTTA CCCCCAACGA GTTTGAAATT AGTCGACCGG ACCGTTACTG GCGGACGAAT GGGGGTTGCT CAAACTTTAA |
| 20601 | AAGCGCTCAG TTGACGGGGA GGGTTACAAC GTTGCCCAGT GTAACATGAC TTCGCGAGTC AACTGCCCCT CCCAATGTTG CAACGGGTCA CATTGTACTG |
| 20651 | CAAAGACTGG TTCCTGGTAC AAATGCTAGC TAACTATAAC ATTGGCTACC GTTTCTGACC AAGGACCATG TTTACGATCG ATTGATATTG TAACCGATGG |
| 20701 | AGGGCTTCTA TATCCCAGAG AGCTACAAGG ACCGCATGTA CTCCTTCTTT TCCCGAAGAT ATAGGGTCTC TCGATGTTCC TGGCGTACAT GAGGAAGAAA |
| 20751 | AGAAACTTCC AGCCCATGAG CCGTCAGGTG GTGGATGATA CTAAATACAA TCTTTGAAGG TCGGGTACTC GGCAGTCCAC CACCTACTAT GATTTATGTT |
| 20801 | GGACTACCAA CAGGTGGGCA TCCTACACCA ACACAACAAC TCTGGATTTG CCTGATGGTT GTCCACCCGT AGGATGTGGT TGTGTTGTTG AGACCTAAAC |
| 20851 | TTGGCTACCT TGCCCCCACC ATGCGCGAAG GACAGGCCTA CCCTGCTAAC AACCGATGGA ACGGGGGTGG TACGCGCTTC CTGTCCGGAT GGGACGATTG |
| 20901 | TTCCCCTATC CGCTTATAGG CAAGACCGCA GTTGACAGCA TTACCCAGAA AAGGGGATAG GCGAATATCC GTTCTGGCGT CAACTGTCGT AATGGGTCTT |
| 20951 | AAAGTTTCTT TGCGATCGCA CCCTTTGGCG CATCCCATTC TCCAGTAACT TTTCAAAGAA ACGCTAGCGT GGGAAACCGC GTAGGGTAAG AGGTCATTGA |
| 21001 | TTATGTCCAT GGGCGCACTC ACAGACCTGG GCCAAAACCT TCTCTACGCC AATACAGGTA CCCGCGTGAG TGTCTGGACC CGGTTTTGGA AGAGATGCGG |
| 21051 | AACTCCGCCC ACGCGCTAGA CATGACTTTT GAGGTGGATC CCATGGACGA TTGAGGCGGG TGCGCGATCT GTACTGAAAA CTCCACCTAG GGTACCTGCT |
| 21101 | GCCCACCCTT CTTTATGTTT TGTTTGAAGT CTTTGACGTG GTCCGTGTGC CGGGTGGAA GAAATACAAA ACAAACTTCA GAAACTGCAC CAGGCACACG |
| 21151 | ACCAGCCGCA CCGCGGCGTC ATCGAAACCG TGTACCTGCG CACGCCCTTC TGGTCGGCGT GGCGCCGCAG TAGCTTTGGC ACATGGACGC GTGCGGAAAG |

| 21201 | TCGGCCGGCA ACGCCACAAC ATAAAGAAGC AAGCAACATC AACAACAGCT AGCCGGCCGT TGCGGTGTTG TATTTCTTCG TTCGTTGTAG TTGTTGTCGA |
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| 21251 | GCCGCCATGG GCTCCAGTGA GCAGGAACTG AAAGCCATTG TCAAAGATCT CGGCGGTACC CGAGGTCACT CGTCCTTGAC TTTCGGTAAC AGTTTCTAGA |
| 21301 | TGGTTGTGGG CCATATTTTT TGGGCACCTA TGACAAGCGC TTTCCAGGCT ACCAACACCC GGTATAAAAA ACCCGTGGAT ACTGTTCGCG AAAGGTCCGA |
| 21351 | TTGTTTCTCC ACACAAGCTC GCCTGCGCCA TAGTCAATAC GGCCGGTCGC AACAAAGAGG TGTGTTCGAG CGGACGCGGT ATCAGTTATG CCGGCCAGCG |
| 21401 | GAGACTGGGG GCGTACACTG GATGGCCTTT GCCTGGAACC CGCACTCAAA CTCTGACCCC CGCATGTGAC CTACCGGAAA CGGACCTTGG GCGTGAGTTT |
| 21451 | AACATGCTAC CTCTTTGAGC CCTTTGGCTT TTCTGACCAG CGACTCAAGC TTGTACGATG GAGAAACTCG GGAAACCGAA AAGACTGGTC GCTGAGTTCG |
| 21501 | AGGTTTACCA GTTTGAGTAC GAGTCACTCC TGCGCCGTAG CGCCATTGCT TCCAAATGGT CAAACTCATG CTCAGTGAGG ACGCGGCATC GCGGTAACGA |
| 21551 | TCTTCCCCCG ACCGCTGTAT AACGCTGGAA AAGTCCACCC AAAGCGTACA AGAAGGGGGC TGGCGACATA TTGCGACCTT TTCAGGTGGG TTTCGCATGT |
| 21601 | GGGGCCCAAC TCGGCCGCCT GTGGACTATT CTGCTGCATG TTTCTCCACG CCCCGGGTTG AGCCGGCGGA CACCTGATAA GACGACGTAC AAAGAGGTGC |
| 21651 | CCTTTGCCAA CTGGCCCCAA ACTCCCATGG ATCACAACCC CACCATGAAC GGAAACGGTT GACCGGGGTT TGAGGGTACC TAGTGTTGGG GTGGTACTTG |
| 21701 | CTTATTACCG GGGTACCCAA CTCCATGCTC AACAGTCCCC AGGTACAGCC GAATAATGGC CCCATGGGTT GAGGTACGAG TTGTCAGGGG TCCATGTCGG |
| 21751 | CACCCTGCGT CGCAACCAGG AACAGCTCTA CAGCTTCCTG GAGCGCCACT GTGGGACGCA GCGTTGGTCC TTGTCGAGAT GTCGAAGGAC CTCGCGGTGA |
| 21801 | CGCCCTACTT CCGCAGCCAC AGTGCGCAGA TTAGGAGCGC CACTTCTTTT GCGGGATGAA GGCGTCGGTG TCACGCGTCT AATCCTCGCG GTGAAGAAAA |
| 21851 | TGTCACTTGA AAAACATGTA AAAATAATGT ACTAGAGACA CTTTCAATAA ACAGTGAACT TTTTGTACAT TTTTATTACA TGATCTCTGT GAAAGTTATT |
| 21901 | AGGCAAATGC TTTTATTTGT ACACTCTCGG GTGATTATTT ACCCCCACCC TCCGTTTACG AAAATAAACA TGTGAGAGCC CACTAATAAA TGGGGGTGGG |
| 21951 | TTGCCGTCTG CGCCGTTTAA AAATCAAAGG GGTTCTGCCG CGCATCGCTA AACGGCAGAC GCGGCAAATT TTTAGTTTCC CCAAGACGGC GCGTAGCGAT |
| 22001 | TGCGCCACTG GCAGGGACAC GTTGCGATAC TGGTGTTTAG TGCTCCACTT ACGCGGTGAC CGTCCCTGTG CAACGCTATG ACCACAAATC ACGAGGTGAA |

| 22051 | AAACTCAGGC ACAACCATCC GCGGCAGCTC GGTGAAGTTT TCACTCCACA TTTGAGTCCG TGTTGGTAGG CGCCGTCGAG CCACTTCAAA AGTGAGGTGT |
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| 22101 | GGCTGCGCAC CATCACCAAC GCGTTTAGCA GGTCGGGCGC CGATATCTTG CCGACGCGTG GTAGTGGTTG CGCAAATCGT CCAGCCCGCG GCTATAGAAC |
| 22151 | AAGTCGCAGT TGGGGCCTCC GCCCTGCGCG CGCGAGTTGC GATACACAGG TTCAGCGTCA ACCCCGGAGG CGGGACGCGC GCGCTCAACG CTATGTGTCC |
| 22201 | GTTGCAGCAC TGGAACACTA TCAGCGCCGG GTGGTGCACG CTGGCCAGCA CAACGTCGTG ACCTTGTGAT AGTCGCGGCC CACCACGTGC GACCGGTCGT |
| 22251 | CGCTCTTGTC GGAGATCAGA TCCGCGTCCA GGTCCTCCGC GTTGCTCAGG GCGAGAACAG CCTCTAGTCT AGGCGCAGGT CCAGGAGGCG CAACGAGTCC |
| 22301 | GCGAACGGAG TCAACTTTGG TAGCTGCCTT CCCAAAAAGG GCGCGTGCCC CGCTTGCCTC AGTTGAAACC ATCGACGGAA GGGTTTTTCC CGCGCACGGG |
| 22351 | AGGCTTTGAG TTGCACTCGC ACCGTAGTGG CATCAAAAGG TGACCGTGCC TCCGAAACTC AACGTGAGCG TGGCATCACC GTAGTTTTCC ACTGGCACGG |
| 22401 | CGGTCTGGGC GTTAGGATAC AGCGCCTGCA TAAAAGCCTT GATCTGCTTA GCCAGACCCG CAATCCTATG TCGCGGACGT ATTTTCGGAA CTAGACGAAT |
| 22451 | AAAGCCACCT GAGCCTTTGC GCCTTCAGAG AAGAACATGC CGCAAGACTT TTTCGGTGGA CTCGGAAACG CGGAAGTCTC TTCTTGTACG GCGTTCTGAA |
| 22501 | GCCGGAAAAC TGATTGGCCG GACAGGCCGC GTCGTGCACG CAGCACCTTG CGGCCTTTTG ACTAACCGGC CTGTCCGGCG CAGCACGTGC GTCGTGGAAC |
| 22551 | CGTCGGTGTT GGAGATCTGC ACCACATTTC GGCCCCACCG GTTCTTCACG GCAGCCACAA CCTCTAGACG TGGTGTAAAG CCGGGGTGGC CAAGAAGTGC |
| 22601 | ATCTTGGCCT TGCTAGACTG CTCCTTCAGC GCGCGCTGCC CGTTTTCGCT TAGAACCGGA ACGATCTGAC GAGGAAGTCG CGCGCGACGG GCAAAAGCGA |
| 22651 | CGTCACATCC ATTTCAATCA CGTGCTCCTT ATTTATCATA ATGCTTCCGT GCAGTGTAGG TAAAGTTAGT GCACGAGGAA TAAATAGTAT TACGAAGGCA |
| 22701 | GTAGACACTT AAGCTCGCCT TCGATCTCAG CGCAGCGGTG CAGCCACAAC CATCTGTGAA TTCGAGCGGA AGCTAGAGTC GCGTCGCCAC GTCGGTGTTG |
| 22751 | GCGCAGCCCG TGGGCTCGTG ATGCTTGTAG GTCACCTCTG CAAACGACTG CGCGTCGGGC ACCCGAGCAC TACGAACATC CAGTGGAGAC GTTTGCTGAC |
| 22801 | CAGGTACGCC TGCAGGAATC GCCCCATCAT CGTCACAAAG GTCTTGTTGC GTCCATGCGG ACGTCCTTAG CGGGGTAGTA GCAGTGTTTC CAGAACAACG |
| 22851 | TGGTGAAGGT CAGCTGCAAC CCGCGGTGCT CCTCGTTCAG CCAGGTCTTG ACCACTTCCA GTCGACGTTG GGCGCCACGA GGAGCAAGTC GGTCCAGAAC |

| 22901 | CATACGGCCG CCAGAGCTTC CACTTGGTCA GGCAGTAGTT TGAAGTTCGC GTATGCCGGC GGTCTCGAAG GTGAACCAGT CCGTCATCAA ACTTCAAGCG |
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| 22951 | CTTTAGATCG TTATCCACGT GGTACTTGTC CATCAGCGCG CGCGCAGCCT GAAATCTAGC AATAGGTGCA CCATGAACAG GTAGTCGCGC GCGCGTCGGA |
| 23001 | CCATGCCCTT CTCCCACGCA GACACGATCG GCACACTCAG CGGGTTCATC GGTACGGGAA GAGGGTGCGT CTGTGCTAGC CGTGTGAGTC GCCCAAGTAG |
| 23051 | ACCGTAATTT CACTITCCGC TTCGCTGGGC TCTTCCTCTT CCTCTTGCGT TGGCATTAAA GTGAAAGGCG AAGCGACCCG AGAAGGAGAA GGAGAACGCA |
| 23101 | CCGCATACCA CGCGCCACTG GGTCGTCTTC ATTCAGCCGC CGCACTGTGC GGCGTATGGT GCGCGGTGAC CCAGCAGAAG TAAGTCGGCG GCGTGACACG |
| 23151 | GCTTACCTCC TTTGCCATGC TTGATTAGCA CCGGTGGGTT GCTGAAACCC CGAATGGAGG AAACGGTACG AACTAATCGT GGCCACCCAA CGACTTTGGG |
| 23201 | ACCATTTGTA GCGCCACATC TTCTCTTTCT TCCTCGCTGT CCACGATTAC TGGTAAACAT CGCGGTGTAG AAGAGAAAGA AGGAGCGACA GGTGCTAATG |
| 23251 | CTCTGGTGAT GGCGGGCGCT CGGGCTTGGG AGAAGGGCGC TTCTTTTCT GAGACCACTA CCGCCCGCGA GCCCGAACCC TCTTCCCGCG AAGAAAAAGA |
| 23301 | TCTTGGGCGC AATGGCCAAA TCCGCCGCCG AGGTCGATGG CCGCGGGCTG AGAACCCGCG TTACCGGTTT AGGCGGCGGC TCCAGCTACC GGCGCCCGAC |
| 23351 | GGTGTGCGCG GCACCAGCGC GTCTTGTGAT GAGTCTTCCT CGTCCTCGGA CCACACGCGC CGTGGTCGCG CAGAACACTA CTCAGAAGGA GCAGGAGCCT |
| 23401 | CTCGATACGC CGCCTCATCC GCTTTTTTGG GGGCGCCCGG GGAGGCGGCG GAGCTATGCG GCGGAGTAGG CGAAAAAACC CCCGCGGGCC CCTCCGCCGC |
| 23451 | GCGACGGGGA CGGGGACGAC ACGTCCTCCA TGGTTGGGGG ACGTCGCGCC CGCTGCCCCT GCCCCTGCTG TGCAGGAGGT ACCAACCCCC TGCAGCGCGG |
| 23501 | GCACCGCGTC CGCGCTCGGG GGTGGTTTCG CGCTGCTCCT CTTCCCGACT CGTGGCGCAG GCGCGAGCCC CCACCAAAGC GCGACGAGGA GAAGGGCTGA |
| 23551 | GGCCATTTCC TTCTCCTATA GGCAGAAAAA GATCATGGAG TCAGTCGAGA CCGGTAAAGG AAGAGGATAT CCGTCTTTTT CTAGTACCTC AGTCAGCTCT |
| 23601 | AGAAGGACAG CCTAACCGCC CCCTCTGAGT TCGCCACCAC CGCCTCCACC TCTTCCTGTC GGATTGGCGG GGGAGACTCA AGCGGTGGTG GCGGAGGTGG |
| 23651 | GATGCCGCCA ACGCGCCTAC CACCTTCCCC GTCGAGGCAC CCCCGCTTGA CTACGGCGGT TGCGCGGATG GTGGAAGGGG CAGCTCCGTG GGGGCGAACT |
| 23701 | GGAGGAGGAA GTGATTATCG AGCAGGACCC AGGTTTTGTA AGCGAAGACG CCTCCTCCTT CACTAATAGC TCGTCCTGGG TCCAAAACAT TCGCTTCTGC |

| 23751 | ACGAGGACCG CTCAGTACCA ACAGAGGATA AAAAGCAAGA CCAGGACAAC TGCTCCTGGC GAGTCATGGT TGTCTCCTAT TTTTCGTTCT GGTCCTGTTG |
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| 23801 | GCAGAGGCAA ACGAGGAACA AGTCGGGCGG GGGGACGAAA GGCATGGCGA CGTCTCCGTT TGCTCCTTGT TCAGCCCGCC CCCCTGCTTT CCGTACCGCT |
| 23851 | CTACCTAGAT GTGGGAGACG ACGTGCTGTT GAAGCATCTG CAGCGCCAGT GATGGATCTA CACCCTCTGC TGCACGACAA CTTCGTAGAC GTCGCGGTCA |
| 23901 | GCGCCATTAT CTGCGACGCG TTGCAAGAGC GCAGCGATGT GCCCCTCGCC CGCGGTAATA GACGCTGCGC AACGTTCTCG CGTCGCTACA CGGGGAGCGG |
| 23951 | ATAGCGGATG TCAGCCTTGC CTACGAACGC CACCTATTCT CACCGCGCGT TATCGCCTAC AGTCGGAACG GATGCTTGCG GTGGATAAGA GTGGCGCGCA |
| 24001 | ACCCCCAAA CGCCAAGAAA ACGGCACATG CGAGCCCAAC CCGCGCCTCA TGGGGGGTTT GCGGTTCTTT TGCCGTGTAC GCTCGGGTTG GGCGCGGAGT |
| 24051 | ACTTCTACCC CGTATTTGCC GTGCCAGAGG TGCTTGCCAC CTATCACATC TGAAGATGGG GCATAAACGG CACGGTCTCC ACGAACGGTG GATAGTGTAG |
| 24101 | TTTTTCCAAA ACTGCAAGAT ACCCCTATCC TGCCGTGCCA ACCGCAGCCG AAAAAGGTTT TGACGTTCTA TGGGGATAGG ACGGCACGGT TGGCGTCGGC |
| 24151 | AGCGGACAAG CAGCTGGCCT TGCGGCAGGG CGCTGTCATA CCTGATATCG TCGCCTGTTC GTCGACCGGA ACGCCGTCCC GCGACAGTAT GGACTATAGC |
| 24201 | CCTCGCTCAA CGAAGTGCCA AAAATCTTTG AGGGTCTTGG ACGCGACGAG GGAGCGAGTT GCTTCACGGT TTTTAGAAAC TCCCAGAACC TGCGCTGCTC |
| 24251 | AAGCGCGCGG CAAACGCTCT GCAACAGGAA AACAGCGAAA ATGAAAGTCA TTCGCGCGCC GTTTGCGAGA CGTTGTCCTT TTGTCGCTTT TACTTTCAGT |
| 24301 | CTCTGGAGTG TTGGTGGAAC TCGAGGGTGA CAACGCGCGC CTAGCCGTAC GAGACCTCAC AACCACCTTG AGCTCCCACT GTTGCGCGCG GATCGGCATG |
| 24351 | TAAAACGCAG CATCGAGGTC ACCCACTTTG CCTACCCGGC ACTTAACCTA ATTTTGCGTC GTAGCTCCAG TGGGTGAAAC GGATGGGCCG TGAATTGGAT |
| 24401 | CCCCCAAGG TCATGAGCAC AGTCATGAGT GAGCTGATCG TGCGCCGTGC GGGGGGTTCC AGTACTCGTG TCAGTACTCA CTCGACTAGC ACGCGGCACG |
| 24451 | GCAGCCCCTG GAGAGGGATG CAAATTTGCA AGAACAAACA GAGGAGGGCC CGTCGGGAC CTCTCCCTAC GTTTAAACGT TCTTGTTTGT CTCCTCCCGG |
| 24501 | TACCCGCAGT TGGCGACGAG CAGCTAGCGC GCTGGCTTCA AACGCGCGAG ATGGGCGTCA ACCGCTGCTC GTCGATCGCG CGACCGAAGT TTGCGCGCTC |
| 24551 | CCTGCCGACT TGGAGGAGCG ACGCAAACTA ATGATGGCCG CAGTGCTCGT GGACGGCTGA ACCTCCTCGC TGCGTTTGAT TACTACCGGC GTCACGAGCA |

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| 24601 | TACCGTGGAG CTTGAGTGCA TGCAGCGGTT CTTTGCTGAC CCGGAGATGC ATGGCACCTC GAACTCACGT ACGTCGCCAA GAAACGACTG GGCCTCTACG | |
| 24651 | AGCGCAAGCT AGAGGAAACA TTGCACTACA CCTTTCGACA GGGCTACGTA TCGCGTTCGA TCTCCTTTGT AACGTGATGT GGAAAGCTGT CCCGATGCAT | |
| 24701 | CGCCAGGCCT GCAAGATCTC CAACGTGGAG CTCTGCAACC TGGTCTCCTAGCGGTCCGGA CGTTCTAGAG GTTGCACCTC GAGACGTTGG ACCAGAGGAT | |
| 24751 | CCTTGGAATT TTGCACGAAA ACCGCCTTGG GCAAAACGTG CTTCATTCCA GGAACCTTAA AACGTGCTTT TGGCGGAACC CGTTTTGCAC GAAGTAAGGT | |
| 24801 | CGCTCAAGGG CGAGGCGCGC CGCGACTACG TCCGCGACTG CGTTTACTTAGCGCGAGTTCCC GCTCCGCGCG GCGCTGATGC AGGCGCTGAC GCAAATGAAT | |
| 24851 | TTTCTATGCT ACACCTGGCA GACGGCCATG GGCGTTTGGC AGCAGTGCTTAAAGATACGA TGTGGACCGT CTGCCGGTAC CCGCAAACCG TCGTCACGAA | ١ |
| 24901 | GGAGGAGTGC AACCTCAAGG AGCTGCAGAA ACTGCTAAAG CAAAACTTGACCTCCTCACG TTGGAGTTCC TCGACGTCTT TGACGATTTC GTTTTGAACT | λ Γ |
| 24951 | AGGACCTATG GACGGCCTTC AACGAGCGCT CCGTGGCCGC GCACCTGGCC TCCTGGATAC CTGCCGGAAG TTGCTCGCGA GGCACCGGCG CGTGGACCGC | 3 |
| 25001 | GACATCATTT TCCCCGAACG CCTGCTTAAA ACCCTGCAAC AGGGTCTGCCCCTGTAGTAAA AGGGGCTTGC GGACGAATTT TGGGACGTTG TCCCAGACGC | 3 |
| 25051 | AGACTTCACC AGTCAAAGCA TGTTGCAGAA CTTTAGGAAC TTTATCCTAGTCTGAAGTGG TCAGTTTCGT ACAACGTCTT GAAATCCTTG AAATAGGATG | 3 |
| 25101 | AGCGCTCAGG AATCTTGCCC GCCACCTGCT GTGCACTTCC TAGCGACTT TCGCGAGTCC TTAGAACGGG CGGTGGACGA CACGTGAAGG ATCGCTGAA | T A |
| 25151 | GTGCCCATTA AGTACCGCGA ATGCCCTCCG CCGCTTTGGG GCCACTGCT CACGGGTAAT TCATGGCGCT TACGGGAGGC GGCGAAACCC CGGTGACGA | A T |
| 25201 | CCTTCTGCAG CTAGCCAACT ACCTTGCCTA CCACTCTGAC ATAATGGAA GGAAGACGTC GATCGGTTGA TGGAACGGAT GGTGAGACTG TATTACCTT | G C |
| 25251 | ACGTGAGCGG TGACGGTCTA CTGGAGTGTC ACTGTCGCTG CAACCTATG TGCACTCGCC ACTGCCAGAT GACCTCACAG TGACAGCGAC GTTGGATAC | C G |
| 25301 | ACCCGCACC GCTCCCTGGT TTGCAATTCG CAGCTGCTTA ACGAAAGTC TGGGGCGTGG CGAGGGACCA AACGTTAAGC GTCGACGAAT TGCTTTCAG | A iT |
| 25351 | AATTATCGGT ACCTITGAGC TGCAGGGTCC CTCGCCTGAC GAAAAGTCC TTAATAGCCA TGGAAACTCG ACGTCCCAGG GAGCGGACTG CTTTTCAGG | G C |
| 25401 | CGGCTCCGGG GTTGAAACTC ACTCCGGGGC TGTGGACGTC GGCTTACCT GCCGAGGCCC CAACTTTGAG TGAGGCCCCG ACACCTGCAG CCGAATGGA | T VA |

| 25451 | CGCAAATTTG | TACCTGAGGA | CTACCACGCC | CACGAGATTA | GGTTCTACGA |
|-------|--------------------------|--|---|------------------------------|----------------------------|
| | GCGTTTAAAC | ATGGACTCCT | GATGGTGCGG | GTGCTCTAAT | CCAAGATGCT |
| 25501 | AGACCAATCC | CGCCCGCCTA | ATGCGGAGCT | TACCGCCTGC | GTCATTACCC |
| | TCTGGTTAGG | GCGGGCGGAT | TACGCCTCGA | ATGGCGGACG | CAGTAATGGG |
| 25551 | AGGGCCACAT | TCTTGGCCAA | TTGCAAGCCA | TCAACAAAGC | CCGCCAAGAG |
| | TCCCGGTGTA | AGAACCGGTT | AACGTTCGGT | AGTTGTTTCG | GGCGGTTCTC |
| 25601 | TTTCTGCTAC | GAAAGGGACG | GGGGGTTTAC | TTGGACCCCC | AGTCCGGCGA |
| | AAAGACGATG | CTTTCCCTGC | CCCCCAAATG | AACCTGGGGG | TCAGGCCGCT |
| 25651 | GGAGCTCAAC | CCAATCCCCC | CGCCGCCGCA | GCCCTATCAG | CAGCAGCCGC |
| | CCTCGAGTTG | GGTTAGGGGG | GCGGCGGCGT | CGGGATAGTC | GTCGTCGGCG |
| 25701 | GGGCCCTTGC | TTCCCAGGAT | GGCACCCAAA | AAGAAGCTGC | AGCTGCCGCC |
| | CCCGGGAACG | AAGGGTCCTA | CCGTGGGTTT | TTCTTCGACG | TCGACGGCGG |
| 25751 | GCCACCCACG CGGTGGGTGC | GACGAGGAGG CTGCTCCTCC | AATACTGGGA TTATGACCCT | CAGTCAGGCA GTCAGTCCGT | GAGGAGGTTT |
| 25801 | TGGACGAGGA | GGAGGAGGAC | ATGATGGAAG | ACTGGGAGAG | CCTAGACGAG |
| | ACCTGCTCCT | CCTCCTCCTC | TACTACCTTC | TGACCCTCTC | GGATCTGCTC |
| 25851 | GAAGCTTCCG | AGGTCGAAGA | A GGTGTCAGAC | GAAACACCGT | CACCCTCGGT |
| | CTTCGAAGGC | TCCAGCTTCT | CCACAGTCTG | CTTTGTGGCA | GTGGGAGCCA |
| 25901 | CGCATTCCCC GCGTAAGGG | TCGCCGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG | CCCAGAAATO GGGTCTTTAG | GGCAACCGGT GCCGTTGGCCA | TCCAGCATGG A AGGTCGTACC |
| 25951 | CTACAACCTO GATGTTGGAG | CGCTCCTCAG GCGAGGAGTG | GCGCCGCCGCCGCCGCCCGCCCGCCCCGCCCCCCGCCGC | G CACTGCCCGT C GTGACGGGCA | TCGCCGACCC A AGCGGCTGGG |
| 26001 | AACCGTAGAT | GGGACACCA(| TGGAACCAGG | G GCCGGTAAGT | CCAAGCAGCC |
| | TTGGCATCTA | CCCTGTGGT(| ACCTTGGTCC | C CGGCCATTCA | GGTTCGTCGG |
| 26051 | GCCGCCGTTA | A GCCCAAGAG | C AACAACAGCO | G CCAAGGCTAG | C CGCTCATGGC |
| | CGGCGGCAA | C CGGGTTCTC | G TTGTTGTCGO | C GGTTCCGATG | G GCGAGTACCG |
| 26101 | GCGGGCACA/ | A GAACGCCATA | A GTTGCTTGC | T TGCAAGACTO | TGGGGGCAAC |
| | CGCCCGTGT | T CTTGCGGTA | T CAACGAACG/ | A ACGTTCTGAO | ACCCCCGTTG |
| 26151 | ATCTCCTTC(| G CCCGCCGCT | T TCTTCTCTA(| C CATCACGGC | G TGGCCTTCCC |
| | TAGAGGAAG | C GGGCGGCGA | A AGAAGAGAT(| G GTAGTGCCG | C ACCGGAAGGG |
| 26201 | CCGTAACAT | C CTGCATTAC | T ACCGTCATC | T CTACAGCCC | A TACTGCACCG |
| | GGCATTGTA | G GACGTAATG | A TGGCAGTAG | A GATGTCGGG | T ATGACGTGGC |
| 26251 | GCGGCAGCG | G CAGCAACAG | C AGCGGCCAC | A CAGAAGCAA | A GGCGACCGGA |
| | CGCCGTCGC | C GTCGTTGTC | G TCGCCGGTG | T GTCTTCGTT | T CCGCTGGCCT |

| 26301 | TAGCAAGACT CTGACAAAGC CCAAGAAATC CACAGCGGCG GCAGCAGCAG ATCGTTCTGA GACTGTTTCG GGTTCTTTAG GTGTCGCCGC CGTCGTCGTC |
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| 26351 | GAGGAGGAGC GCTGCGTCTG GCGCCCAACG AACCCGTATC GACCCGCGAG CTCCTCCTCG CGACGCAGAC CGCGGGTTGC TTGGGCATAG CTGGGCGCTC |
| 26401 | CTTAGAAACA GGATTTTTCC CACTCTGTAT GCTATATTTC AACAGAGCAG GAATCTTTGT CCTAAAAAGG GTGAGACATA CGATATAAAG TTGTCTCGTC |
| 26451 | GGGCCAAGAA CAAGAGCTGA AAATAAAAAA CAGGTCTCTG CGATCCCTCA CCCGGTTCTT GTTCTCGACT TITATTTTTT GTCCAGAGAC GCTAGGGAGT |
| 26501 | CCCGCAGCTG CCTGTATCAC AAAAGCGAAG ATCAGCTTCG GCGCACGCTG GGGCGTCGAC GGACATAGTG TTTTCGCTTC TAGTCGAAGC CGCGTGCGAC |
| 26551 | GAAGACGCGG AGGCTCTCTT CAGTAAATAC TGCGCGCTGA CTCTTAAGGA CTTCTGCGCC TCCGAGAGAA GTCATTTATG ACGCGCGACT GAGAATTCCT |
| 26601 | CTAGTTTCGC GCCCTTTCTC AAATTTAAGC GCGAAAACTA CGTCATCTCC GATCAAAGCG CGGGAAAGAG TTTAAATTCG CGCTTTTGAT GCAGTAGAGG |
| 26651 | AGCGGCCACA CCCGGCGCCA GCACCTGTTG TCAGCGCCAT TATGAGCAAG TCGCCGGTGT GGGCCGCGGT CGTGGACAAC AGTCGCGGTA ATACTCGTTC |
| 26701 | GAAATTCCCA CGCCCTACAT GTGGAGTTAC CAGCCACAAA TGGGACTTGC CTTTAAGGGT GCGGGATGTA CACCTCAATG GTCGGTGTTT ACCCTGAACG |
| 26751 | GGCTGGAGCT GCCCAAGACT ACTCAACCCG AATAAACTAC ATGAGCGCGG CCGACCTCGA CGGGTTCTGA TGAGTTGGGC TTATTTGATG TACTCGCGCC |
| 26801 | GACCCCACAT GATATCCCGG GTCAACGGAA TACGCGCCCA CCGAAACCGA CTGGGGTGTA CTATAGGGCC CAGTTGCCTT ATGCGCGGGT GGCTTTGGCT |
| 26851 | ATTCTCCTGG AACAGGCGGC TATTACCACC ACACCTCGTA ATAACCTTAA TAAGAGGACC TTGTCCGCCG ATAATGGTGG TGTGGAGCAT TATTGGAATT |
| 26901 | TCCCCGTAGT TGGCCCGCTG CCCTGGTGTA CCAGGAAAGT CCCGCTCCCA AGGGGCATCA ACCGGGCGAC GGGACCACAT GGTCCTTTCA GGGCGAGGGT |
| 26951 | CCACTGTGGT ACTTCCCAGA GACGCCCAGG CCGAAGTTCA GATGACTAAC GGTGACACCA TGAAGGGTCT CTGCGGGTCC GGCTTCAAGT CTACTGATTG |
| 27001 | TCAGGGGCGC AGCTTGCGGG CGGCTTTCGT CACAGGGTGC GGTCGCCCGG AGTCCCCGCG TCGAACGCCC GCCGAAAGCA GTGTCCCACG CCAGCGGGCC |
| 27051 | CGTCCCATAT TGAGTGGACT GTTAGTCTCC CGCTCCATAA GTCGAGTTGC |
| 27101 | ACGAGTCGGT GAGCTCCTCG CTTGGTCTCC GTCCGGACGG GACATTTCAG TGCTCAGCCA CTCGAGGAGC GAACCAGAGG CAGGCCTGCC CTGTAAAGTC |

| 27151 | ATCGGCGGCG CCGGCCGCTC TTCATTCACG CCTCGTCAGG CAATCCTAAC TAGCCGCCGC GGCCGGCGAG AAGTAAGTGC GGAGCAGTCC GTTAGGATTG |
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| 27201 | TCTGCAGACC TCGTCCTCTG AGCCGCGCTC TGGAGGCATT GGAACTCTGC AGACGTCTGG AGCAGGAGAC TCGGCGCGAG ACCTCCGTAA CCTTGAGACG |
| 27251 | AATTTATTGA GGAGTTTGTG CCATCGGTCT ACTTTAACCC CTTCTCGGGA TTAAATAACT CCTCAAACAC GGTAGCCAGA TGAAATTGGG GAAGAGCCCT |
| 27301 | CCTCCCGGCC ACTATCCGGA TCAATTTATT CCTAACTTTG ACGCGGTAAA GGAGGGCCGG TGATAGGCCT AGTTAAATAA GGATTGAAAC TGCGCCATTT |
| 27351 | GGACTCGGCG GACGGCTACG ACTGAATGTT AAGTGGAGAG GCAGAGCAAC CCTGAGCCGC CTGCCGATGC TGACTTACAA TTCACCTCTC CGTCTCGTTG |
| 27401 | TGCGCCTGAA ACACCTGGTC CACTGTCGCC GCCACAAGTG CTTTGCCCGC ACGCGGACTT TGTGGACCAG GTGACAGCGG CGGTGTTCAC GAAACGGGCG |
| 27451 | GACTCCGGTG AGTTTTGCTA CTTTGAATTG CCCGAGGATC ATATCGAGGG CTGAGGCCAC TCAAAACGAT GAAACTTAAC GGGCTCCTAG TATAGCTCCC |
| 27501 | CCCGGCGCAC GGCGTCCGGC TTACCGCCCA GGGAGAGCTT GCCCGTAGCC GGGCCGCGTG CCGCAGGCCG AATGGCGGGT CCCTCTCGAA CGGGCATCGG |
| 27551 | TGATTCGGGA GTTTACCCAG CGCCCCCTGC TAGTTGAGCG GGACAGGGGA ACTAAGCCCT CAAATGGGTC GCGGGGGACG ATCAACTCGC CCTGTCCCCT |
| 27601 | CCCTGTGTTC TCACTGTGAT TTGCAACTGT CCTAACCCTG GATTACATCA GGGACACAAG AGTGACACTA AACGTTGACA GGATTGGGAC CTAATGTAGT |
| 27651 | AGATCTTTGT TGCCATCTCT GTGCTGAGTA TAATAAATAC AGAAATTAAA TCTAGAAACA ACGGTAGAGA CACGACTCAT ATTATTTATG TCTTTAATTT |
| 27701 | ATATACTGGG GCTCCTATCG CCATCCTGTA AACGCCACCG TCTTCACCCG TATATGACCC CGAGGATAGC GGTAGGACAT TTGCGGTGGC AGAAGTGGGC |
| 27751 | CCCAAGCAAA CCAAGGCGAA CCTTACCTGG TACTTTTAAC ATCTCTCCCT GGGTTCGTTT GGTTCCGCTT GGAATGGACC ATGAAAATTG TAGAGAGGGA |
| 27801 | CTGTGATTTA CAACAGTTTC AACCCAGACG GAGTGAGTCT ACGAGAGAAC GACACTAAAT GTTGTCAAAG TTGGGTCTGC CTCACTCAGA TGCTCTCTTG |
| 27851 | CTCTCCGAGC TCAGCTACTC CATCAGAAAA AACACCACCC TCCTTACCTG GAGAGGCTCG AGTCGATGAG GTAGTCTTTT TTGTGGTGGG AGGAATGGAC |
| 27901 | TOTOTOTOTO TANANCE TOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO |
| 27951 | COCACACACA TOAATAACTC TGTTTACCAG |

| 28001 | AACAGGAGGT GAGCTTAGAA AACCCTTAGG GTATTAGGCC AAAGGCGCAG TTGTCCTCCA CTCGAATCTT TTGGGAATCC CATAATCCGG TTTCCGCGTC |
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| 28051 | CTACTGTGGG GTTTATGAAC AATTCAAGCA ACTCTACGGG CTATTCTAAT GATGACACCC CAAATACTTG TTAAGTTCGT TGAGATGCCC GATAAGATTA |
| 28101 | TCAGGTTTCT CTAGAATCGG GGTTGGGGTT ATTCTCTGTC TTGTGATTCT AGTCCAAAGA GATCTTAGCC CCAACCCCAA TAAGAGACAG AACACTAAGA |
| 28151 | CTTTATTCTT ATACTAACGC TTCTCTGCCT AAGGCTCGCC GCCTGCTGTG GAAATAAGAA TATGATTGCG AAGAGACGGA TTCCGAGCGG CGGACGACAC |
| 28201 | TGCACATTTG CATITATTGT CAGCTTTTTA AACGCTGGGG TCGCCACCCA ACGTGTAAAC GTAAATAACA GTCGAAAAAT TTGCGACCCC AGCGGTGGGT |
| 28251 | AGATGATTAG GTACATAATC CTAGGTTTAC TCACCCTTGC GTCAGCCCAC TCTACTAATC CATGTATTAG GATCCAAATG AGTGGGAACG CAGTCGGGTG |
| 28301 | GGTACCACCC AAAAGGTGGA TTTTAAGGAG CCAGCCTGTA ATGTTACATT CCATGGTGGG TTTTCCACCT AAAATTCCTC GGTCGGACAT TACAATGTAA |
| 28351 | CGCAGCTGAA GCTAATGAGT GCACCACTCT TATAAAATGC ACCACAGAAC GCGTCGACTT CGATTACTCA CGTGGTGAGA ATATTTTACG TGGTGTCTTG |
| 28401 | ATGAAAAGCT GCTTATTCGC CACAAAAACA AAATTGGCAA GTATGCTGTT TACTTTTCGA CGAATAAGCG GTGTTTTTGT TTTAACCGTT CATACGACAA |
| 28451 | TATGCTATTT GGCAGCCAGG TGACACTACA GAGTATAATG TTACAGTTTT ATACGATAAA CCGTCGGTCC ACTGTGATGT CTCATATTAC AATGTCAAAA |
| 28501 | CCAGGGTAAA AGTCATAAAA CTTTTATGTA TACTTTTCCA TTTTATGAAA GGTCCCATTT TCAGTATTTT GAAAATACAT ATGAAAAGGT AAAATACTTT |
| 28551 | TGTGCGACAT TACCATGTAC ATGAGCAAAC AGTATAAGTT GTGGCCCCCA ACACGCTGTA ATGGTACATG TACTCGTTTG TCATATTCAA CACCGGGGGT |
| 28601 | CAAAATTGTG TGGAAAACAC TGGCACTTTC TGCTGCACTG CTATGCTAAT GTTTTAACAC ACCTTTTGTG ACCGTGAAAG ACGACGTGAC GATACGATTA |
| 28651 | TACAGTGCTC GCTTTGGTCT GTACCCTACT CTATATTAAA TACAAAAGCA ATGTCACGAG CGAAACCAGA CATGGGATGA GATATAATTT ATGTTTTCGT |
| 28701 | GACGCAGCTT TATTGAGGAA AAGAAAATGC CTTAATTTAC TAAGTTACAA CTGCGTCGAA ATAACTCCTT TTCTTTTACG GAATTAAATG ATTCAATGTT |
| 28751 | TCGATTACAG TGGTGATTGA CGAAATGAGC GACGAACGII IIGIITAAGI |
| 28801 | AAAAGTTAGC ATTATAATTA GAATAGGATT TAAACCCCCC GGTCATTTCC TTTTCAATCG TAATATTAAT CTTATCCTAA ATTTGGGGGG CCAGTAAAGG |

| 28851 | TGCTCAATAC CATTCCCCTG AACAATTGAC TCTATGTGGG ATATGCTCCA ACGAGTTATG GTAAGGGGAC TTGTTAACTG AGATACACCC TATACGAGGT |
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| 28901 | GCGCTACAAC CTTGAAGTCA GGCTTCCTGG ATGTCAGCAT CTGACTTTGG CGCGATGTTG GAACTTCAGT CCGAAGGACC TACAGTCGTA GACTGAAACC |
| 28951 | CCAGCACCTG TCCCGCGGAT TTGTTCCAGT CCAACTACAG CGACCCACCC GGTCGTGGAC AGGGCGCCTA AACAAGGTCA GGTTGATGTC GCTGGGTGGG |
| 29001 | TAACAGAGAT GACCAACACA ACCAACGCGG CCGCCGCTAC CGGACTTACA ATTGTCTCTA CTGGTTGTGT TGGTTGCGCC GGCGGCGATG GCCTGAATGT |
| 29051 | TCTACCACAA ATACACCCCA AGTTTCTGCC TTTGTCAATA ACTGGGATAA AGATGGTGTT TATGTGGGGT TCAAAGACGG AAACAGTTAT TGACCCTATT |
| 29101 | CTTGGGCATG TGGTGGTTCT CCATAGCGCT TATGTTTGTA TGCCTTATTA GAACCCGTAC ACCACCAAGA GGTATCGCGA ATACAAACAT ACGGAATAAT |
| 29151 | TTATGTGGCT CATCTGCTGC CTAAAGCGCA AACGCGCCCG ACCACCCATC AATACACCGA GTAGACGACG GATTTCGCGT TTGCGCGGGC TGGTGGGTAG |
| 29201 | TATAGTCCCA TCATTGTGCT ACACCCAAAC AATGATGGAA TCCATAGATT ATATCAGGGT AGTAACACGA TGTGGGTTTG TTACTACCTT AGGTATCTAA |
| 29251 | GGACGGACTG AAACACATGT TCTTTTCTCT TACAGTATGA TTAAATGAGA CCTGCCTGAC TTTGTGTACA AGAAAAGAGA ATGTCATACT AATTTACTCT |
| 29301 | CATGATTCCT CGAGTTTTTA TATTACTGAC CCTTGTTGCG CTTTTTTGTG GTACTAAGGA GCTCAAAAAT ATAATGACTG GGAACAACGC GAAAAAACAC |
| 29351 | CGTGCTCCAC ATTGGCTGCG GTTTCTCACA TCGAAGTAGA CTGCATTCCA GCACGAGGTG TAACCGACGC CAAAGAGTGT AGCTTCATCT GACGTAAGGT |
| 29401 | GCCTTCACAG TCTATTTGCT TTACGGATTT GTCACCCTCA CGCTCATCTG CGGAAGTGTC AGATAAACGA AATGCCTAAA CAGTGGGAGT GCGAGTAGAC |
| 29451 | CAGCCTCATC ACTGTGGTCA TCGCCTTTAT CCAGTGCATT GACTGGGTCT GTCGGAGTAG TGACACCAGT AGCGGAAATA GGTCACGTAA CTGACCCAGA |
| 29501 | GTGTGCGCTT TGCATATCTC AGACACCATC CCCAGTACAG GGACAGGACT CACACGCGAA ACGTATAGAG TCTGTGGTAG GGGTCATGTC CCTGTCCTGA |
| 29551 | ATAGCTGAGC TTCTTAGAAT TCTTTAATTA TGAAATTTAC TGTGACTTTT TATCGACTCG AAGAATCTTA AGAAATTAAT ACTTTAAATG ACACTGAAAA |
| 29601 | CTGCTGATTA TTTGCACCCT ATCTGCGTTT TGTTCCCCGA CCTCCAAGCC GACGACTAAT AAACGTGGGA TAGACGCAAA ACAAGGGGCT GGAGGTTCGG |
| 29651 | TCAAAGACAT ATATCATGCA GATTCACTCG TATATGGAAT ATTCCAAGTT AGTTTCTGTA TATAGTACGT CTAAGTGAGC ATATACCTTA TAAGGTTCAA |

| 29701 | GCTACAATGA AAAAAGCGAT CTTTCCGAAG CCTGGTTATA TGCAATCATC CGATGTTACT TTTTTCGCTA GAAAGGCTTC GGACCAATAT ACGTTAGTAG |
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| 29751 | TCTGTTATGG TGTTCTGCAG TACCATCTTA GCCCTAGCTA TATATCCCTA AGACAATACC ACAAGACGTC ATGGTAGAAT CGGGATCGAT ATATAGGGAT |
| 29801 | CCTTGACATT GGCTGGAACG CAATAGATGC CATGAACCAC CCAACTTTCC GGAACTGTAA CCGACCTTGC GTTATCTACG GTACTTGGTG GGTTGAAAGG |
| 29851 | CCGCGCCCGC TATGCTTCCA CTGCAACAAG TTGTTGCCGG CGGCTTTGTC GGCGCGGGCG ATACGAAGGT GACGTTGTTC AACAACGGCC GCCGAAACAG |
| 29901 | CCAGCCAATC AGCCTCGCCC ACCTTCTCCC ACCCCCACTG AAATCAGCTA GGTCGGTTAG TCGGAGCGGG TGGAAGAGGG TGGGGGTGAC TTTAGTCGAT |
| 29951 | CTTTAATCTA ACAGGAGGAG ATGACTGACA CCCTAGATCT AGAAATGGAC GAAATTAGAT TGTCCTCCTC TACTGACTGT GGGATCTAGA TCTTTACCTG |
| 30001 | GGAATTATTA CAGAGCAGCG CCTGCTAGAA AGACGCAGGG CAGCGGCCGA CCTTAATAAT GTCTCGTCGC GGACGATCTT TCTGCGTCCC GTCGCCGGCT |
| 30051 | GCAACAGCGC ATGAATCAAG AGCTCCAAGA CATGGTTAAC TTGCACCAGT CGTTGTCGCG TACTTAGTTC TCGAGGTTCT GTACCAATTG AACGTGGTCA |
| 30101 | GCAAAAGGGG TATCTTTTGT CTCGTAAAGC AGGCCAAAGT CACCTACGAC CGTTTTCCCC ATAGAAAACA GAGCATTTCG TCCGGTTTCA GTGGATGCTG |
| 30151 | AGTAATACCA CCGGACACCG CCTTAGCTAC AAGTTGCCAA CCAAGCGTCA TCATTATGGT GGCCTGTGGC GGAATCGATG TTCAACGGTT GGTTCGCAGT |
| 30201 | GAAATTGGTG GTCATGGTGG GAGAAAAGCC CATTACCATA ACTCAGCACT CTTTAACCAC CAGTACCACC CTCTTTTCGG GTAATGGTAT TGAGTCGTGA |
| 30251 | CGGTAGAAAC CGAAGGCTGC ATTCACTCAC CTTGTCAAGG ACCTGAGGAT GCCATCTTTG GCTTCCGACG TAAGTGAGTG GAACAGTTCC TGGACTCCTA |
| 30301 | CTCTGCACCC TTATTAAGAC CCTGTGCGGT CTCAAAGATC TTATTCCCTT GAGACGTGGG AATAATTCTG GGACACGCCA GAGTTTCTAG AATAAGGGAA |
| 30351 | TAACTAATAA AAAAAAATAA TAAAGCATCA CTTACTTAAA ATCAGTTAGC ATTGATTATT TTTTTTTATT ATTTCGTAGT GAATGAATTT TAGTCAATCG |
| 30401 | AAATTTCTGT CCAGTTTATT CAGCAGCACC TCCTTGCCCT CCTCCCAGCT TTTAAAGACA GGTCAAATAA GTCGTCGTGG AGGAACGGGA GGAGGGTCGA |
| 30451 | CTGGTATTGC AGCTTCCTCC TGGCTGCAAA CTTTCTCCAC AATCTAAATG GACCATAACG TCGAAGGAGG ACCGACGTTT GAAAGAGGTG TTAGATTTAC |
| 30501 | GAATGTCAGT TTCCTCCTGT TCCTGTCCAT CCGCACCCAC TATCTTCATG CTTACAGTCA AAGGAGGACA AGGACAGGTA GGCGTGGGTG ATAGAAGTAC |

| 30551 | TTGTTGCAGA TGAAGCGCGC AAGACCGTCT GAAGATACCT TCAAAACAACGTCT ACTTCGCGCG TTCTGGCAGA CTTCTATGGA AGT | ACCCCGT TGGGGCA |
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| 30601 | GTATCCATAT GACACGGAAA CCGGTCCTCC AACTGTGCCT TTTCCCATAGGTATA CTGTGCCTTT GGCCAGGAGG TTGACACGGA AAAC | CTTACTC GAATGAG |
| 30651 | CTCCCTTTGT ATCCCCCAAT GGGTTTCAAG AGAGTCCCCC TGG GAGGGAAACA TAGGGGGTTA CCCAAAGTTC TCTCAGGGGG ACC | GGTACTC CCATGAG |
| 30701 | TCTTTGCGCC TATCCGAACC TCTAGTTACC TCCAATGGCA TGC AGAAACGCGG ATAGGCTTGG AGATCAATGG AGGTTACCGT ACG | TTGCGCT AACGCGA |
| 30751 | CAAAATGGGC AACGGCCTCT CTCTGGACGA GGCCGGCAAC CTT GTTTTACCCG TTGCCGGAGA GAGACCTGCT CCGGCCGTTG GAA | ACCTCCC TGGAGGG |
| 30801 | AAAATGTAAC CACTGTGAGC CCACCTCTCA AAAAAACCAA GTC TTTTACATTG GTGACACTCG GGTGGAGAGT TTTTTTGGTT CAG | AAACATA TTTGTAT |
| 30851 | AACCTGGAAA TATCTGCACC CCTCACAGTT ACCTCAGAAG CCC TTGGACCTTT ATAGACGTGG GGAGTGTCAA TGGAGTCTTC GGG | TAACTGT |
| 30901 | GGCTGCCGCC GCACCTCTAA TGGTCGCGGG CAACACACTC ACC CCGACGGCGG CGTGGAGATT ACCAGCGCCC GTTGTGTGAG TGG | ATGCAAT TACGTTA |
| 30951 | CACAGGCCCC GCTAACCGTG CACGACTCCA AACTTAGCAT TGC GTGTCCGGGG CGATTGGCAC GTGCTGAGGT TTGAATCGTA ACG | CACCCAA GTGGGTT |
| 31001 | GGACCCCTCA CAGTGTCAGA AGGAAAGCTA GCCCTGCAAA CAT CCTGGGGAGT GTCACAGTCT TCCTTTCGAT CGGGACGTTT GTA | CAGGCCC AGTCCGGG |
| 31051 | GGAGTGGTGG TGGCTATCGT CATGGGAATG ATAGTGACGG AG | IGGGGGAA |
| 31101 | TAACTACTGC CACTGGTAGC TTGGGCATTG ACTTGAAAGA GCC ATTGATGACG GTGACCATCG AACCCGTAAC TGAACTTTCT CGC | CCATTTAT GCTAAATA |
| 31151 | ACACAAAATG GAAAACTAGG ACTAAAGTAC GGGGCTCCTT TGG TGTGTTTTAC CTTTTGATCC TGATTTCATG CCCCGAGGAA ACG | CATGTAAC GTACATTG |
| 31201 | L AGACGACCTA AACACTTTGA CCGTAGCAAC TGGTCCAGGT GTC TCTGCTGGAT TTGTGAAACT GGCATCGTTG ACCAGGTCCA CA | GACTATTA CTGATAAT |
| 31251 | TATTATGAAG GAACGTTTGA TTTCAATGAC CTCGGAACCC AA | AACTAAGT |
| 31301 | GTTCCGTTAT ACGTTGAATT ACATCGTCCT CCTGATTCCT AA | CTAAGAGT |
| 31351 | 1 AAACAGACGC CTTATACTTG ATGTTAGTTA TCCGTTTGAT GC TTTGTCTGCG GAATATGAAC TACAATCAAT AGGCAAACTA CG | TCAAAACC AGTTTTGG |

| 31401 | AACTAAATCT AAGACTAGGA CAGGGCCCTC TTTTTATAAA CTCAGCCCAC TTGATTTAGA TTCTGATCCT GTCCCGGGAG AAAAATATTT GAGTCGGGTG |
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| 31451 | AACTTGGATA TTAACTACAA CAAAGGCCTT TACTTGTTTA CAGCTTCAAA TTGAACCTAT AATTGATGTT GTTTCCGGAA ATGAACAAAT GTCGAAGTTT |
| 31501 | CAATTCCAAA AAGCTTGAGG TTAACCTAAG CACTGCCAAG GGGTTGATGT GTTAAGGTTT TTCGAACTCC AATTGGATTC GTGACGGTTC CCCAACTACA |
| 31551 | TTGACGCTAC AGCCATAGCC ATTAATGCAG GAGATGGGCT TGAATTTGGT AACTGCGATG TCGGTATCGG TAATTACGTC CTCTACCCGA ACTTAAACCA |
| 31601 | TCACCTAATG CACCAAACAC AAATCCCCTC AAAACAAAAA TTGGCCATGG AGTGGATTAC GTGGTTTGTG TTTAGGGGAG TTTTGTTTTT AACCGGTACC |
| 31651 | CCTAGAATTT GATTCAAACA AGGCTATGGT TCCTAAACTA GGAACTGGCC GGATCTTAAA CTAAGTTTGT TCCGATACCA AGGATTTGAT CCTTGACCGG |
| 31701 | TTAGTTTTGA CAGCACAGGT GCCATTACAG TAGGAAACAA AAATAATGAT AATCAAAACT GTCGTGTCCA CGGTAATGTC ATCCTTTGTT TITATTACTA |
| 31751 | AAGCTAACTT TGTGGACCAC ACCAGCTCCA TCTCCTAACT GTAGACTAAA TTCGATTGAA ACACCTGGTG TGGTCGAGGT AGAGGATTGA CATCTGATTT |
| 31801 | TGCAGAGAAA GATGCTAAAC TCACTTTGGT CTTAACAAAA TGTGGCAGTC ACGTCTCTTT CTACGATTTG AGTGAAACCA GAATTGTTTT ACACCGTCAG |
| 31851 | AAATACTTGC TACAGTTTCA GTTTTGGCTG TTAAAGGCAG TTTGGCTCCA TTTATGAACG ATGTCAAAGT CAAAACCGAC AATTTCCGTC AAACCGAGGT |
| 31901 | ATATCTGGAA CAGTTCAAAG TGCTCATCTT ATTATAAGAT TTGACGAAAA TATAGACCTT GTCAAGTTTC ACGAGTAGAA TAATATTCTA AACTGCTTTT |
| 31951 | TGGAGTGCTA CTAAACAATT CCTTCCTGGA CCCAGAATAT TGGAACTTTA ACCTCACGAT GATTTGTTAA GGAAGGACCT GGGTCTTATA ACCTTGAAAT |
| 32001 | GAAATGGAGA TCTTACTGAA GGCACAGCCT ATACAAACGC TGTTGGATTT CTTTACCTCT AGAATGACTT CCGTGTCGGA TATGTTTGCG ACAACCTAAA |
| 32051 | ATGCCTAACC TATCAGCTTA TCCAAAATCT CACGGTAAAA CTGCCAAAAG TACGGATTGG ATAGTCGAAT AGGTTTTAGA GTGCCATTTT GACGGTTTTC |
| 32101 | TAACATTGTC AGTCAAGTTT ACTTAAACGG AGACAAAACT AAACCTGTAAATTGTAACAG TCAGTTCAAA TGAATTTGCC TCTGTTTTGA TTTGGACATT |
| 32151 | CACTAACCAT TACACTAAAC GGTACACAGG AAACAGGAGA CACAACTCCA GTGATTGGTA ATGTGATTTG CCATGTGTCC TTTGTCCTCT GTGTTGAGGT |
| 32201 | AGTGCATACT CTATGTCATT TTCATGGGAC TGGTCTGGCC ACAACTACAT TCACGTATGA GATACAGTAA AAGTACCCTG ACCAGACCGG TGTTGATGTA |
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| 32251 | TAATGAAATA TITGCCACAT CCTCTTACAC TITTTCATAC ATTGCCCAAG ATTACTITAT AAACGGTGTA GGAGAATGTG AAAAAGTATG TAACGGGTTC |
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| 32301 | AATAAAGAAT CGTTTGTGTT ATGTTTCAAC GTGTTTATTT TTCAATTGCA TTATTTCTTA GCAAACACAA TACAAAGTTG CACAAATAAA AAGTTAACGT |
| 32351 | GAAAATTTCA AGTCATTTTT CATTCAGTAG TATAGCCCCA CCACCACATA CTTTTAAAGT TCAGTAAAAA GTAAGTCATC ATATCGGGGT GGTGGTGTAT |
| 32401 | GCTTATACAG ATCACCGTAC CTTAATCAAA CTCACAGAAC CCTAGTATTC CGAATATGTC TAGTGGCATG GAATTAGTTT GAGTGTCTTG GGATCATAAG |
| 32451 | AACCTGCCAC CTCCCTCCCA ACACACAGAG TACACAGTCC TTTCTCCCCG TTGGACGGTG GAGGGAGGGT TGTGTGTCTC ATGTGTCAGG AAAGAGGGGC |
| 32501 | GCTGGCCTTA AAAAGCATCA TATCATGGGT AACAGACATA TTCTTAGGTG CGACCGGAAT TTTTCGTAGT ATAGTACCCA TTGTCTGTAT AAGAATCCAC |
| 32551 | TTATATTCCA CACGGTTTCC TGTCGAGCCA AACGCTCATC AGTGATATTA AATATAAGGT GTGCCAAAGG ACAGCTCGGT TTGCGAGTAG TCACTATAAT |
| 32601 | ATAAACTCCC CGGGCAGCTC ACTTAAGTTC ATGTCGCTGT CCAGCTGCTG TATTTGAGGG GCCCGTCGAG TGAATTCAAG TACAGCGACA GGTCGACGAC |
| 32651 | AGCCACAGGC TGCTGTCCAA CTTGCGGTTG CTTAACGGGC GGCGAAGGAG TCGGTGTCCG ACGACAGGTT GAACGCCAAC GAATTGCCCG CCGCTTCCTC |
| 32701 | AAGTCCACGC CTACATGGGG GTAGAGTCAT AATCGTGCAT CAGGATAGGG TTCAGGTGCG GATGTACCCC CATCTCAGTA TTAGCACGTA GTCCTATCCC |
| 32751 | CGGTGGTGCT GCAGCAGCGC GCGAATAAAC TGCTGCCGCC GCCGCTCCGT GCCACCACGA CGTCGTCGCG CGCTTATTTG ACGACGGCGG CGGCGAGGCA |
| 32801 | CCTGCAGGAA TACAACATGG CAGTGGTCTC CTCAGCGATG ATTCGCACCG GGACGTCCTT ATGTTGTACC GTCACCAGAG GAGTCGCTAC TAAGCGTGGC |
| 32851 | CCCGCAGCAT AAGGCGCCTT GTCCTCCGGG CACAGCAGCG CACCCTGATC GGGCGTCGTA TTCCGCGGAA CAGGAGGCCC GTGTCGTCGC GTGGGACTAG |
| 32901 | TCACTTAAAT CAGCACAGTA ACTGCAGCAC AGCACCACAA TATTGTTCAA AGTGAATTTA GTCGTGTCAT TGACGTCGTG TCGTGGTGTT ATAACAAGTT |
| 32951 | AATCCCACAG TGCAAGGCGC TGTATCCAAA GCTCATGGCG GGGACCACAG TTAGGGTGTC ACGTTCCGCG ACATAGGTTT CGAGTACCGC CCCTGGTGTC |
| 33001 | AACCCACGTG GCCATCATAC CACAAGCGCA GGTAGATTAA GTGGCGACCC TTGGGTGCAC CGGTAGTATG GTGTTCGCGT CCATCTAATT CACCGCTGGG |
| 33051 | CTCATAAACA CGCTGGACAT AAACATTACC TCTTTTGGCA TGTTGTAATT GAGTATTTGT GCGACCTGTA TTTGTAATGG AGAAAACCGT ACAACATTAA |

| 33101 | CACCACCTCC CGGTACCATA TAAACCTCTG ATTAAACATG GCGCCATCCA GTGGTGGAGG GCCATGGTAT ATTTGGAGAC TAATTTGTAC CGCGGTAGGT |
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| 33151 | CCACCATCCT AAACCAGCTG GCCAAAACCT GCCCGCCGGC TATACACTGC GGTGGTAGGA TTTGGTCGAC CGGTTTTGGA CGGGCGGCCG ATATGTGACG |
| 33201 | AGGGAACCGG GACTGGAACA ATGACAGTGG AGAGCCCAGG ACTCGTAACC TCCCTTGGCC CTGACCTTGT TACTGTCACC TCTCGGGTCC TGAGCATTGG |
| 33251 | ATGGATCATC ATGCTCGTCA TGATATCAAT GTTGGCACAA CACAGGCACA TACCTAGTAG TACGAGCAGT ACTATAGTTA CAACCGTGTT GTGTCCGTGT |
| 33301 | CGTGCATACA CTTCCTCAGG ATTACAAGCT CCTCCCGCGT TAGAACCATA GCACGTATGT GAAGGAGTCC TAATGTTCGA GGAGGGCGCA ATCTTGGTAT |
| 33351 | TCCCAGGGAA CAACCCATTC CTGAATCAGC GTAAATCCCA CACTGCAGGG AGGGTCCCTT GTTGGGTAAG GACTTAGTCG CATTTAGGGT GTGACGTCCC |
| 33401 | AAGACCTCGC ACGTAACTCA CGTTGTGCAT TGTCAAAGTG TTACATTCGG TTCTGGAGCG TGCATTGAGT GCAACACGTA ACAGTTTCAC AATGTAAGCC |
| 33451 | GCAGCAGCGG ATGATCCTCC AGTATGGTAG CGCGGGTTTC TGTCTCAAAA CGTCGTCGCC TACTAGGAGG TCATACCATC GCGCCCAAAG ACAGAGTTTT |
| 33501 | GGAGGTAGAC GATCCCTACT GTACGGAGTG CGCCGAGACA ACCGAGATCG CCTCCATCTG CTAGGGATGA CATGCCTCAC GCGGCTCTGT TGGCTCTAGC |
| 33551 | TGTTGGTCGT AGTGTCATGC CAAATGGAAC GCCGGACGTA GTCATATTTC ACAACCAGCA TCACAGTACG GTTTACCTTG CGGCCTGCAT CAGTATAAAG |
| 33601 | CTGAAGCAAA ACCAGGTGCG GGCGTGACAA ACAGATCTGC GTCTCCGGTC GACTTCGTTT TGGTCCACGC CCGCACTGTT TGTCTAGACG CAGAGGCCAG |
| 33651 | TCGCCGCTTA GATCGCTCTG TGTAGTAGTT GTAGTATATC CACTCTCTCA AGCGGCGAAT CTAGCGAGAC ACATCATCAA CATCATATAG GTGAGAGAGT |
| 33701 | AAGCATCCAG GCGCCCCCTG GCTTCGGGTT CTATGTAAAC TCCTTCATGC TTCGTAGGTC CGCGGGGGAC CGAAGCCCAA GATACATTTG AGGAAGTACG |
| 33751 | GCCGCTGCCC TGATAACATC CACCACCGCA GAATAAGCCA CACCCAGCCA CGGCGACGGG ACTATTGTAG GTGGTGGCGT CTTATTCGGT GTGGGTCGGT |
| 33801 | ACCTACACAT TCGTTCTGCG AGTCACACAC GGGAGGAGCG GGAAGAGCTG TGGATGTGTA AGCAAGACGC TCAGTGTGTG CCCTCCTCGC CCTTCTCGAC |
| 33851 | CTTCTTGGTA CAAAAAAAA AATAAGGIII ICIAATAGGI IIIGGAGIII |
| 33901 | ATGAAGATCT ATTAAGTGAA CGCGCTCCCC TCCGGTGGCG TGGTCAAACT TACTTCTAGA TAATTCACTT GCGCGAGGGG AGGCCACCGC ACCAGTTTGA |

| 33951 | CTACAGCCAA | AGAACAGATA | ATGGCATTTG | TAAGATGTTG | CACAATGGCT |
|-------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|
| | GATGTCGGTT | TCTTGTCTAT | TACCGTAAAC | ATTCTACAAC | GTGTTACCGA |
| 34001 | TCCAAAAGGC | AAACGGCCCT | CACGTCCAAG | TGGACGTAAA | GGCTAAACCC |
| | AGGTTTTCCG | TTTGCCGGGA | GTGCAGGTTC | ACCTGCATTT | CCGATTTGGG |
| 34051 | TTCAGGGTGA | ATCTCCTCTA | TAAACATTCC | AGCACCTTCA | ACCATGCCCA |
| | AAGTCCCACT | TAGAGGAGAT | ATTTGTAAGG | TCGTGGAAGT | TGGTACGGGT |
| 34101 | AATAATTCTC | ATCTCGCCAC | CTTCTCAATA | TATCTCTAAG | CAAATCCCGA |
| | TTATTAAGAG | TAGAGCGGTG | GAAGAGTTAT | ATAGAGATTC | GTTTAGGGCT |
| 34151 | ATATTAAGTC | CGGCCATTGT | AAAAATCTGC | TCCAGAGCGC | CCTCCACCTT |
| | TATAATTCAG | .GCCGGTAACA | TTTTTAGACG | AGGTCTCGCG | GGAGGTGGAA |
| 34201 | CAGCCTCAAG | CAGCGAATCA | TGATTGCAAA | AATTCAGGTT | CCTCACAGAC |
| | GTCGGAGTTC | GTCGCTTAGT | ACTAACGTTT | TTAAGTCCAA | GGAGTGTCTG |
| 34251 | CTGTATAAGA | TTCAAAAGCG | GAACATTAAC | AAAAATACCG | CGATCCCGTA |
| | GACATATTCT | AAGTTTTCGC | CTTGTAATTG | TTTTTATGGC | GCTAGGGCAT |
| 34301 | GGTCCCTTCG CCAGGGAAGC | CAGGGCCAGC GTCCCGGTCG | TGAACATAAT ACTTGTATTA | CGTGCAGGTC GCACGTCCAG | TGCACGGACC ACGTGCCTGG |
| 34351 | AGCGCGGCCA | CTTCCCCGCC | AGGAACCATG | ACAAAAGAAC | CCACACTGAT |
| | TCGCGCCGGT | GAAGGGGCGG | TCCTTGGTAC | TGTTTTCTTG | GGTGTGACTA |
| 34401 | TATGACACGO | ATACTCGGAG | CTATGCTAAC | CAGCGTAGCC | CCGATGTAAG |
| | ATACTGTGCO | TATGAGCCTC | CGATACGATTG | GTCGCATCGG | GGCTACATTC |
| 34451 | CTTGTTGCAT | GGGCGGCGAT | T ATAAAATGCA | A AGGTGCTGCT | CAAAAAATCA |
| | GAACAACGTA | CCCGCCGCTA | A TATTTTACGT | TCCACGACGA | GTTTTTTAGT |
| 34501 | GGCAAAGCCT | CGCGCAAAAA | A AGAAAGCACA | TCGTAGTCAT | GCTCATGCAG |
| | CCGTTTCGG/ | CGCGCGTTTT | T TCTTTCGTG1 | AGCATCAGTA | CGAGTACGTC |
| 34551 | ATAAAGGCAG | G GTAAGCTCCC | G GAACCACCAC | AGAAAAAGAG | ACCATTTTC |
| | TATTTCCGTG | C CATTCGAGGC | C CTTGGTGGTC | TCTTTTCTG | G TGGTAAAAAG |
| 34601 | AGAGTTTGT | A CAGACGCCC | A AAGACGTAT | I IGIGITTIA | A AAATAACAAA F TTTATTGTTT |
| 34651 | TTTTGTAAA | T TTGTAATCT | T CGGACAGAA | I GIIGICCII | A AACAACCCTT T TTGTTGGGAA |
| 34701 | TATTCGTAT | T CTGCCTGAT | G CCGGTACGG | C CGCACTGGC | T AAAAAAACTG A TTTTTTTGAC |
| 34751 | GTCACCGTG | A TTAAAAAGC | A CCACCGACA | G CTCCTCGGT | C ATGTCCGGAG |
| | CAGTGGCAC | T AATTITTCG | T GGTGGCTGT | C GAGGAGCCA | G TACAGGCCTC |

| 34801 | TCATAATGTA AGACTCGGTA AACACATCAG GTTGATTCAC ATCGGTCAGT AGTATTACAT TCTGAGCCAT TTGTGTAGTC CAACTAAGTG TAGCCAGTCA |
|-------|--|
| 34851 | GCTAAAAAGC GACCGAAATA GCCCGGGGGA ATACATACCC GCAGGCGTAG CGATTTTCG CTGGCTTTAT CGGGCCCCCT TATGTATGGG CGTCCGCATC |
| 34901 | AGACAACATT ACAGCCCCCA TAGGAGGTAT AACAAAATTA ATAGGAGAGA TCTGTTGTAA TGTCGGGGGT ATCCTCCATA TTGTTTTAAT TATCCTCTCT |
| 34951 | AAAACACATA AACACCTGAA AAACCCTCCT GCCTAGGCAA AATAGCACCC TTTTGTGTAT TTGTGGACTT TTTGGGAGGA CGGATCCGTT TTATCGTGGG |
| 35001 | TCCCGCTCCA GAACAACATA CAGCGCTTCC ACAGCGGCAG CCATAACAGT AGGGCGAGGT CTTGTTGTAT GTCGCGAAGG TGTCGCCGTC GGTATTGTCA |
| 35051 | CAGCCTTACC AGTAAAAAAG AAAACCTATT AAAAAAAACAC CACTCGACAC GTCGGAATGG TCATTTTTC TTTTGGATAA TTTTTTTGTG GTGAGCTGTG |
| 35101 | GGCACCAGCT CAATCAGTCA CAGTGTAAAA AAGGGCCAAG TGCAGAGCGA CCGTGGTCGA GTTAGTCAGT GTCACATTTT TTCCCGGTTC ACGTCTCGCT |
| 35151 | GTATATATAG GACTAAAAAA TGACGTAACG GTTAAAGTCC ACAAAAAACA CATATATATC CTGATTTTTT ACTGCATTGC CAATTTCAGG TGTTTTTTGT |
| 35201 | CCCAGAAAAC CGCACGCGAA CCTACGCCCA GAAACGAAAG CCAAAAAACC GGGTCTTTTG GCGTGCGCTT GGATGCGGGT CTTTGCTTTC GGTTTTTTGG |
| 35251 | CACAACTTCC TCAAATCGTC ACTTCCGTTT TCCCACGTTA CGTCACTTCC GTGTTGAAGG AGTTTAGCAG TGAAGGCAAA AGGGTGCAAT GCAGTGAAGG |
| 35301 | CATTITAAGA AAACTACAAT TCCCAACACA TACAAGTTAC TCCGCCCTAA GTAAAATTCT TTTGATGTTA AGGGTTGTGT ATGTTCAATG AGGCGGGATT |
| 35351 | AACCTACGTC ACCCGCCCCG TTCCCACGCC CCGCGCCACG TCACAAACTC TTGGATGCAG TGGGCGGGGC AAGGGTGCGG GGCGCGGTGC AGTGTTTGAG |
| 35401 | CACCCCTCA TTATCATATT GGCTTCAATC CAAAATAAGG TATATTATTG GTGGGGGAGT AATAGTATAA CCGAAGTTAG GTTTTATTCC ATATAATAAC |
| | PacI |
| 35451 | ATGATGTTAA TTAAGAATTC GGATCTGCGA CGCGAGGCTG GATGGCCTTC TACTACAATT AATTCTTAAG CCTAGACGCT GCGCTCCGAC CTACCGGAAG |
| 35501 | CCCATTATGA TTCTTCTCGC TTCCGGCGGC ATCGGGATGC CCGCGTTGCA GGGTAATACT AAGAAGAGCG AAGGCCGCCG TAGCCCTACG GGCGCAACGT |
| 35551 | GGCCATGCTG TCCAGGCAGG TAGATGACGA CCATCAGGGA CAGCTTCAAGCCGGTACGAC AGGTCCGTCC ATCTACTGCT GGTAGTCCCT GTCGAAGTTC |
| | |

FIG.9A-42

| 35651 CATAGGCTCC GCCCCCTGA CGAGCATCAC AAAAATCGAC GCTCAAGTCA 35701 GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG TTTCCCCCTG 35751 GAAGCTCCCT CTGGGCTGTC CTGATATTTC TATGGTCCGC AAAGGGGGAC 35751 GAAGCTCCCT CGTGCGCTCT CCTGATATTTC TATGGTCCGC AAAGGGGGAC 35801 CTGTCCGCCT TTCTCCCTTC GGGAAGCGT GGGACGGCGA ATGGCCTATG 35801 CTGTCCGCCT TTCTCCCTTC GGGAAGCGT GCGCACAGAGAG TATCGAGTGC 35851 CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCAAG TATCGAGTGC 35801 TGCACGAACC CCCCGTTCAG CCCTTCGCAC CGCGAAAAGAG TATCGAGTGC 35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCAAAGAG TATCGAGTGC 35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCAAAAGAG TATCGAGTGC 35901 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC GCCGAAACACAACCAACTCAGA GGGGGCAAACTC GGGCTGGCGA AACACCCGGT TCCTGGCCGA AAACACCAACTCAGAG GCAGAACTCA GGGTTGGGCCA TTCTGTGCTG AATAGCCGGT ACCCGACACACACACACACACACACACACACACACACAC | 35601 | GCCAGCAAAA CGGTCGTTTT | GGCCAGGAAC CCGGTCCTTG | CGTAAAAAGG GCATTTTTCC | CCGCGTTGCT GGCGCAACGA | GGCGTTTTTC CCGCAAAAAG |
|--|-------|--------------------------|------------------------------|------------------------------|--------------------------|------------------------------|
| CTCCACCGCT TTGGGCTGTC CTGATATTTC TATGGTCCGC AAAGGGGGACAC 35751 GAAGCTCCCT CGTGCGCTCT CCTGTTCCGA CCCTGCCGCT TACCGGATAC 35801 CTGTCCGCCT TTCTCCCTTC GGGAAGCGTG GCGCTTTCTC ATAGCTCACC GACAGGCGGA AAGAGGGAAG CCCTTCGCAC CGCGAAAGAG TATCGAGTGG 35801 CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT CGCGCAAAGAG TATCGAGTGG 35801 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC GACCCGACAC 35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CGGTAACTA ACGTGCTTGG GGGGCAAGTC GGGCTGGCGA CGCGGAATAG GCCATTGAT 35951 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAGT 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT ACCGTCGTC 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCCGT GCTACAGAG GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTT AGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGAA 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGCAAAAAAAACAA 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCTCT TTTTTTCCTA GAGTTCTCT AGGAAACTA 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCTCT TTTTTTCCTA GAGTTCTCT AGGAAACTA 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCTCT TTTTTTCCTA GAGTTCTCT AGGAAACTA 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCTCT TTTTTTCCTA GAGTTCTCT AGGAAACTA 36201 ATCTAAAGT ATATATGACT AAACCACTTG CTTTTGATT CACCTAGATC CTTTTAAAACC 36301 ATCTAAAAGT ATATATGACT AAACTTGGTC TGACAGTTAC CAATGCTTA | 35651 | CATAGGCTCC GTATCCGAGG | GCCCCCCTGA CGGGGGGACT | CGAGCATCAC GCTCGTAGTG | AAAAATCGAC TTTTTAGCTG | GCTCAAGTCA CGAGTTCAGT |
| CTTCGAGGGA GCACGCGAGA GGACAAGGCT GGGACGGCGA ATGGCCTATO 35801 CTGTCCGCCT TTCTCCCTTC GGGAAGCGTG GCGCTTTCTC ATAGCTCACC GACAGGCGGA AAGAGGGAAG CCCTTCGCAC CGCGAAAGAG TATCGAGTGC 35851 CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG CTGGGCTGTC GACATCCATA GAGTCAAGCC ACATCCAGCA AGCGAGGTTC GACCCGACAC 35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CGGTAACTA ACGTGCTTGG GGGGCAAGTC GGGCTGCGA CGCGGAATAG GCCATTGAT 35951 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAG GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTC 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAG GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAAGAG TTGGTAGCT TAGACCGCAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAAAAAA | 35701 | GAGGTGGCGA CTCCACCGCT | AACCCGACAG TTGGGCTGTC | GACTATAAAG CTGATATTTC | ATACCAGGCG TATGGTCCGC | TTTCCCCCTG AAAGGGGGAC |
| GACAGGCGGA AAGAGGGAAG CCCTTCGCAC CGCGAAAGAG TATCGAGTGG 35851 CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG CTGGGCTGTG GACATCCATA GAGTCAAGCC ACATCCAGCA AGCGAGGTTC GACCCGACAC 35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CGGTAACTA ACGTGCTTGG GGGGCAAGTC GGGCTGGCGA CGCGGAATAG GCCATTGATA 35951 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAG GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTC 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAG GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTCGTAGACC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACCAACCG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAGAG CCTTTTTCTC AACCATCGA 36201 AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTA 36251 TTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGATT AAACCAGTAC TCTAAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAC 36301 TTTGGTCATG AGATTATCAAC AAACTTGGTC TGACAGTTAC CAATGCTTAC 36351 AATCTAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAC 36351 AATCTAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAC 36351 AATCTAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAC | 35751 | GAAGCTCCCT CTTCGAGGGA | CGTGCGCTCT GCACGCGAGA | CCTGTTCCGA GGACAAGGCT | CCCTGCCGCT GGGACGGCGA | TACCGGATAC ATGGCCTATG |
| GACATCCATA GAGTCAAGCC ACATCCAGCA AGCGAGGTTC GACCCGACACA 35901 TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CGGTAACTA ACGTGCTTGG GGGGCAAGTC GGGCTGGCGA CGCGGAATAG GCCATTGATA 35951 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAGG GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTC 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAG GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAAGAG TTGGTAGCT TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA 36151 TTGATCCGGC AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGTCT TTTTTTCCTA GAGTTCTCT AGGAAACTA 36251 TTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGGACTGCG AGTCACCTTG CTTTTGATT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAC CATTTAATTAATAAACCAGTAC AAACCAAGCT TTTTTTCCTAGAA GTGGATCTAC CAATGCCTTAAAACCT TCTAATAGGT AAACCTAGATC CTTTTAAATT AAACCAGTAC ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAA | 35801 | CTGTCCGCCT GACAGGCGGA | TTCTCCCTTC AAGAGGGAAG | GGGAAGCGTG CCCTTCGCAC | GCGCTTTCTC CGCGAAAGAG | ATAGCTCACG TATCGAGTGC |
| ACGTGCTTGG GGGGCAAGTC GGGCTGGCGA CGCGGAATAG GCCATTGATA 35951 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAGG GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTCG 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAG GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCT TAGACCGCAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA 36151 TTGATCCGGC AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGCTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTA 36251 TTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGATT CACCTAGATC CAATTCCCT 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTA | 35851 | CTGTAGGTAT GACATCCATA | CTCAGTTCGG GAGTCAAGCC | TGTAGGTCGT ACATCCAGCA | TCGCTCCAAG AGCGAGGTTC | CTGGGCTGTG GACCCGACAC |
| GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTCG 36001 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAG GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAAGAG TTGGTAGCT TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA 36151 TTGATCCGGC AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGCAGA AAAAAAGGAT CTCAAGAAGA CAATCCCT 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAG GAAAATTTA | 35901 | TGCACGAACC ACGTGCTTGG | CCCCGTTCAG GGGGCAAGTC | CCCGACCGCT GGGCTGGCGA | GCGCCTTATC CGCGGAATAG | CGGTAACTAT GCCATTGATA |
| GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTC. 36051 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC AGTATTTGG AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC. 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCT TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA AACAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG AACAAACGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT AGGAAACTA ATGCGCGTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTA AAAAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGAGTG CAATTCCCT AAACCAGTAC TCTAAAAGT AAACCAGTAC TCTAAAAGT AAACCAGTAC TCTAAAAGT AAACTTGAGT AAACTTGAGT AAACTTGAGT AAACTTGAGT AAACTTAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAA | 35951 | CGTCTTGAGT GCAGAACTCA | CCAACCCGGT GGTTGGGCCA | AAGACACGAC TTCTGTGCTG | TTATCGCCAC AATAGCGGTG | TGGCAGCAGC ACCGTCGTCG |
| AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCCTG TCATAAACC. 36101 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCT TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA 36151 TTGATCCGGC AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTA 36251 TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGAGTG CAATTCCCT 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAG GAAAATTTA | 36001 | CACTGGTAAC GTGACCATTG | AGGATTAGCA TCCTAATCGT | GAGCGAGGTA CTCGCTCCAT | TGTAGGCGGT ACATCCGCCA | GCTACAGAGT CGATGTCTCA |
| TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTCTC AACCATCGA 36151 TTGATCCGGC AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGC AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGCTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTA 36251 TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGAGTG CAATTCCCT 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAG GAAAATTTA | 36051 | TCTTGAAGTG AGAACTTCAC | GTGGCCTAAC CACCGGATTG | TACGGCTACA ATGCCGATGT | CTAGAAGGAC GATCTTCCTG | AGTATTTGGT TCATAAACCA |
| AACTAGGCCG TITGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACG 36201 AGCAGCAGAT TACGCGCAGA AAAAAAAGGAT CTCAAGAAGA TCCTTTGAT TCGTCGTCTA ATGCGCGTCT TITTTTCCTA GAGTTCTTCT AGGAAACTA 36251 TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGAGTG CAATTCCCT 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAG GAAAATTTA | 36101 | ATCTGCGCTC TAGACGCGAG | TGCTGAAGCC ACGACTTCGG | AGTTACCTTC TCAATGGAAG | GGAAAAAGAG CCTTTTTCTC | TTGGTAGCTC AACCATCGAG |
| TCGTCGTCTA ATGCGCGTCT TTTTTTCCTA GAGTTCTTCT AGGAAACTA 36251 TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGA AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTTGAGTG CAATTCCCT 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAG GAAAATTTA | 36151 | TTGATCCGGC AACTAGGCCG | AAACAAACCA TTTGTTTGGT | CCGCTGGTAG GGCGACCATC | GCCACCAAAA | TTTGTTTGCA AAACAAACGT |
| 36301 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAAT AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCTAG GAAAATTTA | 36201 | AGCAGCAGAT TCGTCGTCTA | TACGCGCAGA ATGCGCGTCT | AAAAAAAGGAT TTTTTTCCTA | CTCAAGAAGA GAGTTCTTCT | TCCTTTGATC AGGAAACTAG |
| AAACCAGTAC TCTAATAGTT TTTCCTAGAA GTGGATCIAG GAAAAIIIA | 36251 | TTTTCTACGO AAAAGATGCO | G GGTCTGACGO C CCAGACTGCO | TCAGTGGAAC AGTCACCTTG | GAAAACTCAG CTTTTGAGTG | C GTTAAGGGAT G CAATTCCCTA |
| 36351 AATCTAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTA TTAGATTTCA TATATACTCA TTTGAACCAG ACTGTCAATG GTTACGAAT | 36301 | TTTGGTCAT(| AGATTATCA/ | A AAAGGATCTT | CACCTAGATO GTGGATCTAG | C CTTTTAAATC G GAAAATTTAG |
| | 36351 | AATCTAAAG TTAGATTTC | T ATATATGAG A TATATACTC | T AAACTTGGT(A TTTGAACCA(| TGACAGTTAG ACTGTCAATG | C CAATGCTTAA G GTTACGAATT |
| 36401 TCAGTGAGGC ACCTATCTCA GCGATCTGTC TATTTCGTTC ATCCATAGT AGTCACTCCG TGGATAGAGT CGCTAGACAG ATAAAGCAAG TAGGTATCA | 36401 | TCAGTGAGG AGTCACTCC | C ACCTATCTC/ G TGGATAGAG | A GCGATCTGT(T CGCTAGACA(| TATTTCGTT | C ATCCATAGTT G TAGGTATCAA |

FIG.9A-43

| 36451 | GCCTGACTCC | CCGTCGTGTA | GATAACTACG | ATACGGGAGG | GCTTACCATC |
|-------|--------------------------|--------------|--------------------------|--------------------------|---------------------------|
| | CGGACTGAGG | GGCAGCACAT | CTATTGATGC | TATGCCCTCC | CGAATGGTAG |
| 36501 | TGGCCCCAGT | GCTGCAATGA | TACCGCGAGA | CCCACGCTCA | CCGGCTCCAG |
| | ACCGGGGTCA | CGACGTTACT | ATGGCGCTCT | GGGTGCGAGT | GGCCGAGGTC |
| 36551 | ATTTATCAGC | AATAAACCAG | CCAGCCGGAA | GGGCCGAGCG | CAGAAGTGGT |
| | TAAATAGTCG | TTATTTGGTC | GGTCGGCCTT | CCCGGCTCGC | GTCTTCACCA |
| 36601 | CCTGCAACTT | TATCCGCCTC | CATCCAGTCT | ATTAATTGTT | GCCGGGAAGC |
| | GGACGTTGAA | ATAGGCGGAG | GTAGGTCAGA | TAATTAACAA | CGGCCCTTCG |
| 36651 | TAGAGTAAGT | AGTTCGCCAG | TTAATAGTTT | GCGCAACGTT | GTTGCCATTG |
| | ATCTCATTCA | TCAAGCGGTC | AATTATCAAA | CGCGTTGCAA | CAACGGTAAC |
| 36701 | CTACAGGCAT | CGTGGTGTCA | CGCTCGTCGT | TTGGTATGGC | TTCATTCAGC |
| | GATGTCCGTA | GCACCACAGT | GCGAGCAGCA | AACCATACCG | AAGTAAGTCG |
| 36751 | TCCGGTTCCC | AACGATCAAG | GCGAGTTACA | TGATCCCCCA | TGTTGTGCAA |
| | AGGCCAAGGG | TTGCTAGTTC | CGCTCAATGT | ACTAGGGGGT | ACAACACGTT |
| 36801 | AAAAGCGGTT | AGCTCCTTCG | GTCCTCCGAT | CGTTGTCAGA | AGTAAGTTGG |
| | TTTTCGCCAA | TCGAGGAAGC | CAGGAGGCTA | GCAACAGTCT | TCATTCAACC |
| 36851 | CCGCAGTGTT | ATCACTCATG | GTTATGGCAG | CACTGCATAA | TTCTCTTACT |
| | GGCGTCACAA | TAGTGAGTAC | CAATACCGTC | GTGACGTATT | AAGAGAATGA |
| 36901 | GTCATGCCAT | CCGTAAGATG | CTTTTCTGTG | ACTGGTGAGT | ACTCAACCAA |
| | CAGTACGGTA | GGCATTCTAC | GAAAAGACAC | TGACCACTCA | TGAGTTGGTT |
| 36951 | GTCATTCTGA | GAATAGTGTA | TGCGGCGACC | GAGTTGCTCT | TGCCCGGCGT |
| | CAGTAAGACT | CTTATCACAT | ACGCCGCTGG | CTCAACGAGA | ACGGGCCGCA |
| 37001 | CAACACGGGA GTTGTGCCCT | TAATACCGCG | CCACATAGCA GGTGTATCGT | GAACTTTAAA CTTGAAATTT | AGTGCTCATC TCACGAGTAG |
| 37051 | ATTGGAAAAC | GTTCTTCGGG | G GCGAAAACTC | TCAAGGATCT | TACCGCTGTT |
| | TAACCTTTTG | G CAAGAAGCCG | C CGCTTTTGAG | AGTTCCTAGA | ATGGCGACAA |
| 37101 | GAGATCCAGT | TCGATGTAAC | CCACTCGTGC | ACCCAACTGA | TCTTCAGCAT |
| | CTCTAGGTCA | A AGCTACATTC | GGTGAGCACG | TGGGTTGACT | AGAAGTCGTA |
| 37151 | CTTTTACTT | CACCAGCGT | T TCTGGGTGAG | CAAAAACAGG | AAGGCAAAAT |
| | GAAAATGAAA | GTGGTCGCAA | A AGACCCACTO | CGTTTTTGTCC | TTCCGTTTTA |
| 37201 | CGGCGTTTT | T TCCCTTATT(| CCGCTGTGCC | TTTACAACT | TACTCATACT TATGAGTATGA |
| 37251 | CTTCCTTTT | T CAATATTAT | T GAAGCATTTA | TCAGGGTTAT | TGTCTCATGA |
| | GAAGGAAAA | A GTTATAATA | A CTTCGTAAAT | AGTCCCAATA | A ACAGAGTACT |

| 37301 | CGCCTATGTA | TAAACTTACA | TAAATCTTTT | TATTTGTTTA | TCCCCAAGGC |
|-------|--------------------------|--------------------------|--------------|------------|------------|
| 37351 | CGCACATTTC | CCCGAAAAGT | GCCACCTGAC | GTCTAAGAAA | CCATTATTAT |
| | GCGTGTAAAG | GGGCTTTTCA | CGGTGGACTG | CAGATTCTTT | GGTAATAATA |
| 37401 | CATGACATTA | ACCTATAAAA | ATAGGCGTAT | CACGAGGCCC | TTTCGTCTTC |
| | GTACTGTAAT | TGGATATTIT | TATCCGCATA | GTGCTCCGGG | AAAGCAGAAG |
| 37451 | AAGAATTGGA TTCTTAACCT | TCCGAATTCT AGGCTTAAGA | TAAT ATTA | | |

FIG.9A-45

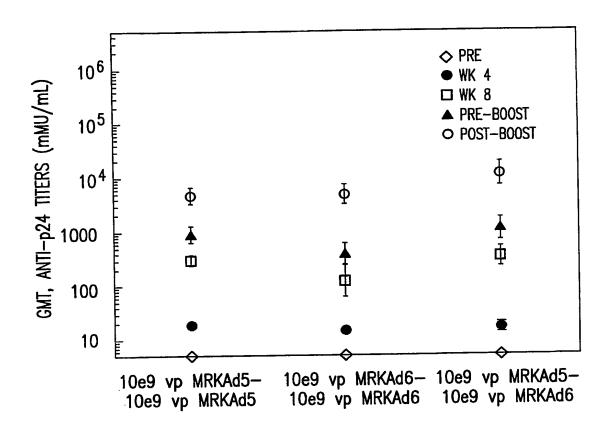


FIG.10

| 1 | CATCATCAAT | ΛΑΤΑΤΑΓΩΤΤ | ATTTTGGATT | GAAGCCAATA | TGATAATGAG | GGGGTGGAGT |
|------------|-------------|--|-------------------|--------------|--------------|--------------|
| 6 1 | TTCTCACCTC | CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | TGGGAACGGG | GCGGGTGACG | TAGTAGTGTG | GCGGAAGTGT |
| 101 101 | CATCTTCTAA | CTCTCCCCCA | ACACATGTAA | GCGCCGGATG | TGGTAAAAGT | GACGTTTTTG |
| 121 | CTCTCCCCCC | CTCTACACCC | CAACTCACAA | TTTTCGCGCG | GTTTTAGGCG | GATGTTGTAG |
| TOT | TAAATTTCCC | CCTAACCAGG | TAATATTTGG | CCATTTTCGC | GGGAAAACTG | AATAAGAGGA |
| 241 | ACTCAAATCT | CAATAATTCT | CTCTTACTCA | TAGCGCGTAA | TATTTGTCTA | GGGCCGCGGG |
| 301 | AGIGAAAICI | CTTTACCTCC | ACACTCCCCC | AGGTGTTTTT | CTCAGGTGTT | TTCCGCGTTC |
| 36T | GACTIGACC | TTCCCCTTTT | ATTATTATAG | TCAGCTGACG | CGCAGTGTAT | TTATACCCGG |
| | CGGGTCAAAG | 1100001111 | TOTTOACTEC | CAGCGAGTAG | AGTITICICC | TCCGAGCCGC |
| 481 | TOOCACACCC | AAGAGGCCAC | TCACACATAT | TATCTGCCAC | GGAGGTGTTA | TTACCGAAGA |
| 541 | 1CCGACACCG | A CTCTTTCC | ACCACCTCAT | CGAAGAGGTA | CTGGCTGATA | ATCTTCCACC |
| 601 | AATGGCCGCC | AGIUIIIIGG | ACCAGC TGAT | CGAACTGTAT | CATTTAGACG | TGACGGCCCC |
| 661 | TCC TAGCCAT | 1 1 GAACCAC | CCCTTTCCCA | CATTITICCC | CACTCTCTAA | TGTTGGCGGT |
| 721 | CGAAGATCCC | AACGAGGAGG | TOACTTTTCC | GATTTTTCCC | CCTTCTCCCC | ACCCCCCTCA |
| 781 | GCAGGAAGGG | ATIGACTIAT | 1CACTITICC | GCCGGCGCCC | CCTCCCCTTT | |
| 841 | CCTTTCCCGG | CAGCCCGAGC | AGCCGGAGCA | GAGAGCCTTG | CCCTTTCCAC | CCACTCACCA |
| 901 | CCTTGTGCCG | GAGGIGAICG | AICHACCIG | CCACGAGGCT | CACCACCCCC | CCCACTGACGA |
| 961 | CGAGGATGAA | GAGGGTGAGG | AGIIIGIGII | AGATTATGTG | CATATTATCT | CTTCCCTTTG |
| 1021 | CAGGTCTTGT | CATTATCACC | GGAGGAATAC | GGGGGACCCA | AAAATTATCC | CCACTCCCTG |
| 1081 | CTATATGAGG | ACCTGTGGCA | TGITIGICIA | CAGTAAGTGA | AAAATTATGG | TOTOCTTTAA |
| 1141 | ATAGAGTGGT | GGGTTTGGTG | TGGTAATTT | TTTTTTAATT | AACCTCACCC | TCACCCCCAG |
| 1201 | AGAATTTTGT | ATTGTGATTT | TITAAAAGGT | CCTGTGTCTG | TOOTCOCTCC | TATCCTCACA |
| 1261 | CCAGAACCGG | AGCCTGCAAG | ACCTACCCGG | CGTCCTAAAT | COCATACCTC | TOACTCCCCT |
| 1321 | CGCCCGACAT | CACCTGTGTC | TAGAGAATGC | AATAGTAGTA | CGGATAGCTG | TAAACCACTT |
| 1381 | CCTTCTAACA | CACCTCCTGA | GATACACCCG | GTGGTCCCGC | TOO A COLOUT | 1 AAACCAGI I |
| 1441 | GCCGTGAGAG | TTGGTGGGCG | TCGCCAGGCT | GTGGAATGTA | 1CGAGGACTT | GUITAAUGAG |
| 1501 | TCTGGGCAAC | CTTTGGACTT | GAGCTGTAAA | CGCCCCAGGC | CATAAGGIGI | AAACCIGIGA |
| 1561 | TTGCGTGTGT | GGTTAACGCC | TTTGTTTGCT | GAATGAGTTG | ATGTAAGTT | AATAAAGGGT |
| 1621 | GAGATAATGT | TTAACTTGCA | TGGCGTGTTA | AATGGGGCGG | GGCTTAAAGG | GIAIAIAAIG |
| 1681 | CGCCGTGGGC | TAATCTTGGT | TACATCTGAC | CTCATGGAGG | CTTGGGAGIG | HIGGAAGAI |
| 1741 | TTTTCTGCTG | TGCGTAACTT | GCTGGAACAG | AGCTCTAACA | GTACCTCTTG | GIIIIGGAGG |
| 1801 | TTTCTGTGGG | GCTCCTCCCA | GGCAAAGTTA | GTCTGCAGAA | TTAAGGAGGA | TACAAGTGG |
| 1861 | GAATTTGAAG | AGCTTTTGAA | ATCCTGTGGT | GAGCTGTTTG | ATTCTTTGAA | TCTGGGTCAC |
| 1921 | CAGGCGCTTT | TCCAAGAGAA | GGTCATCAAG | ACTTTGGATT | TTTCCACACC | GGGGCGCGC I |
| 1981 | GCGGCTGCTG | TTGCTTTTT | GAGTTTTATA | AAGGATAAAT | GGAGCGAAGA | AACCCATCTG |
| 2041 | AGCGGGGGGT | ACCTGCTGGA | TTTTCTGGCC | ATGCATCTGT | GGAGAGCGGT | GGTGAGACAC |
| 2101 | AAGAATCGCC | TGCTACTGTT | GTCTTCCGTC | CGCCCGGCAA | TAATACCGAC | GGAGGAGCAA |
| 2161 | CAGCAGGAGG | AAGCCAGGCG | GCGGCGGCGG | i caggagcaga | GCCCATGGAA | CCCGAGAGCC |
| 2221 | GGCCTGGACC | CTCGGGAATG | AATGTTGTAC | AGGTGGCTGA | ACTGTTTCCA | GAACTGAGAC |
| 2281 | GCATTTTAAC | CATTAACGAG | GATGGGCAGG | i GGCTAAAGGG | GGTAAAGAAG | GAGCGGGGG |
| 2341 | CTTCTGAGGC | TACAGAGGAG | GCTAGGAATC | : TAACTTTTAG | CTTAATGACC | AGACACCGIC |
| 2401 | CTGAGTGTGT | TACTITICAG | CAGATTAAGG | ATAATTGCGC | TAATGAGCII | GATCTGCTGG |
| 2461 | CCCAGAAGTA | TTCCATAGAG | CAGCTGACCA | \ CTTACTGGCT | GCAGCCAGGG | GAIGAIIIIG |
| 2521 | ACCACCCTAT | TAGGGTATAT | GCAAAGGTGG | : CACTTAGGCC | AGATIGCAAG | TACAAGATTA |
| 2521 | GCAAACTTGT | ΔΔΑΤΑΤCAGG | AATTGTTGCT | ACATTTCTGG | GAACGGGGCC | GAGG I GGAGA |
| 2641 | TAGATACGGA | GGATAGGGTG | GCCTTTAGAT | GTAGCATGAT | AAATATGTGG | CCGGGGGTGC |

| 2701 | TTGGCATGGA | CGGGGTGGTT | ATTATGAATG | TGAGGTTTAC | TGGTCCCAAT | TTTAGCGGTA |
|-------|------------|--------------|------------|------------|-------------|------------|
| 2761 | CGGTTTTCCT | GGCCAATACC | AATCTTATCC | TACACGGTGT | AAGCTTCTAT | GGGTTTAACA |
| | ATACCTGTGT | | | | | |
| 2881 | | | | | TAAGAAATGC | |
| | GGTGTACCTT | | | | | |
| | ACTGTGGTTG | | | | | |
| | GCAACTGCGA | | | | | |
| | TGAAGACCAT | | | | | |
| 3181 | | | | | GGTGTTCCTA | |
| | GCAATTTGAG | | | | | |
| | ACGGGGTGTT | | | | | |
| 3361 | | | | | GAACCAGCCT | |
| | ATGTGACCGA | | | | | |
| 3/121 | GCTCTAGCGA | TGAAGATACA | GATTGAGGTA | CTGAAATGTG | TGGGCGTGGC | TTAAGGGTGG |
| | GAAAGAATAT | | | | | |
| | CCATGAGCGC | | | | | |
| 3661 | | | | | CATTGATGGT | |
| | TGCCCGCAAA | | | | | |
| 2701 | CAGCCTCCGC | CECCECTTCA | CCCCTCCAC | CCACCGTGTG | CGGGATTGTG | ACTGACTITG |
| 30/01 | CTTTCCTGAG | CCCGCTTGCA | AGCAGTGCAG | CTTCCCGTTC | ATCCGCCCGC | GATGACAAGT |
| | TGACGGCTCT | | | | | |
| 2061 | AGCTGTTGGA | TCTCCCCCAC | CAGGTTTCTG | | TTCCTCCCT | CCCAATGCGG |
| | TTTAAAACAT | | | | | |
| | TCTTTATTTA | | | | | |
| | GGTCCTGTGT | | | | | |
| | CATAAGCCCG | | | | | |
| | | ATCCAGTCGT | | | TGCCTAAAAA | |
| 4261 | TAGCAAGCTG | | | | TTTACAAAGC | |
| | GGATGGGTGC | | | | TGTATTTTTA | |
| | GTTCCCAGCC | | | | | |
| | | | | | GCGTGGAAGA | |
| 4501 | | | | | ATGATGGCAA | |
| 4561 | CCCCCCCCCC | TCCCCCAAGAI | TATTTCTCCC | ATCACTAACC | TCATAGTTGT | CTTCCACCAT |
| 4621 | | | | | | |
| 4681 | | | | | GTGCCAGACT | |
| 4741 | TTOACATOO | DUDUCATOATOT | CTACCTCCCC | CCCCATCAAC | TGCATTTCCC | CCCCCCTACC |
| 4801 | TTCAGATGGG | GGGATCATGT | CIACCIGCGG | AACCACCTCC | CACTTACCCC | ACCCCCTCCC |
| | GGAGATCAGC | | | | | |
| 4921 | CCCGTAAATC | ACACCTATTA | CCGGCTGCAA | CIGGIAGIIA | AGAGAGCIGC | AGUIGUUGIU |
| 4981 | ATCCCTGAGC | AGGGGGGCCA | CTICGTTAAG | CAIGICCUIG | ACTIGUATGI | AACCAAACTT |
| 5041 | CAAATCCGCC | AGAAGGCGCT | CGCCGCCCAG | CGATAGCAGT | 1CTTGCAAGG | AAGCAAAGII |
| 5101 | TTTCAACGGT | TIGAGGCCGT | CCGCCGTAGG | CAIGCIIIIG | AGUGITIGAU | CAAGCAGTIC |
| 5161 | CAGGCGGTCC | CACAGCTCGG | TCACGTGCTC | TACGGCATCT | CCTCCTCCTC | CACACCCCCC |
| 5221 | TTTCGCGGGT | IGGGGCGGCT | FICGCIGIAC | GGCAGTAGTC | 4616C1C61C | |
| 5281 | AGGGTCATGT | CTITCCACGG | GUGUAGGGTC | CTCGTCAGCG | - IAGIUIGGI | CACGGTGAAG |
| 5341 | GGGTGCGCTC | CGGGTTGCGC | GUTGGCCAGG | GIGCGCIIGA | 4461461661 | GCTGGTGCTG |

| 5401 | AAGCGCTGCC | GGTCTTCGCC | CTGCGCGTCG | GCCAGGTAGC | ATTTGACCAT | GGTGTCATAG |
|---------------|---------------|--------------|------------|-------------------|-------------------|-------------|
| E161 | TCCACCCCCT | CCGCGGCGTG | GCCCTTGGCG | CGCAGCTTGC | CCTTGGAGGA | GGCGCCGCAC |
| EE21 | CACCCCCAGT | CCACACTTTT | AAGGGCGTAG | AGCIIGGGCG | CGAGAAAATAC | CGATICCGGG |
| 5521 | CACTACCCAT | CCGCGCCGCA | GGCCCCGCAG | ACGGTCTCGC | ATTULAUGAG | CCAGGIGAGC |
| 5641 | TCTGGCCGTT | CGGGGTCAAA | AACCAGGTTT | CCCCCATGCT | HIIGAIGUG | HILLIACCI |
| E701 | CTCCTTTCCA | TGAGCCGGTG | TCCACGCTCG | GTGACGAAAA | GGCTGTCCGT | GICCCGIAI |
| 5761 | ACAGACTTGA | GAGGCCTGTC | CTCGAGCGGT | GTTCCGCGGT | CCTCCTCGTA | TAGAAACTCG |
| 5821 | GACCACTCTG | AGACGAAGGC | TCGCGTCCAG | GCCAGCACGA | AGGAGGC I AA | טטטטAטטטט ו |
| 5991 | TACCGGTCGT | TGTCCACTAG | GGGGTCCACT | CGCTCCAGGG | TGTGAAGACA | CATGTCGCCC |
| E0/11 | TCTTCGGCAT | CAAGGAAGGT | GATTGGTTTA | TAGGTGTAGG | CCACGIGACC | GGGIGIICCI |
| 6001 | CAAGGGGGGC | TATAAAAGGG | GGTGGGGGCG | CGTTCGTCCI | CACICICITE | CGCATCGCTG |
| 6061 | TCTGCGAGGG | CCAGCTGTTG | GGGTGAGTAC | TCCCTCTCAA | AAGUGGGLAI | GACIICIGCG |
| 6121 | CTAAGATTGT | CAGTTTCCAA | AAACGAGGAG | GATTTGATAT | TCACCIGGCC | CGCGGTGATG |
| 6191 | CCTTTGAGGG | TGGCCGCGTC | CATCTGGTCA | GAAAAGACAA | 1011111111 | GICAAGCIIG |
| 6241 | GTGGCAAACG | ACCCGTAGAG | GGCGTTGGAC | AGCAACTTGG | CGATGGAGCG | CAGGGTTTGG |
| 6301 | TTTTTGTCGC | GATCGGCGCG | CTCCTTGGCC | GCGATGTTTA | GCTGCACGTA | TTCGCGCGCA |
| 6361 | ACGCACCGCC | ATTCGGGAAA | GACGGTGGTG | CGCTCGTCGG | GCACTAGGTG | CACGCGCCAA |
| 6/21 | CCCCGCTTGT | GCAGGGTGAC | AAGGTCAACG | CTGGTGGCTA | CCTCTCCGCG | TAGGCGCTCG |
| 6481 | TTGGTCCAGC | AGAGGCGGCC | GCCCTTGCGC | GAGCAGAATG | GCGGTAGTGG | GTCTAGCTGC |
| 6541 | CTCTCCTCC | GGGGGTCTGC | GTCCACGGTA | AAGACCCCGG | GCAGCAGGCG | CGCGTCGAAG |
| 6601 | TACTCTATCT | TGCATCCTTG | CAAGTCTAGC | GCCTGCTGCC | ATGCGCGGGC | GGCAAGCGCG |
| 6661 | CECTCETATE | GGTTGAGTGG | GGGACCCCAT | GGCATGGGGT | GGGTGAGCGC | GGAGGCGTAC |
| 6721 | ATGCCGCAAA | TGTCGTAAAC | GTAGAGGGC | TCTCTGAGTA | TTCCAAGATA | TGTAGGGTAG |
| 6791 | CATCTTCCAC | CGCGGATGCT | GGCGCGCACG | TAATCGTATA | GTTCGTGCGA | GGGAGCGAGG |
| 6841 | AGGTCGGGAC | CGAGGTTGCT | ACGGGCGGC | TGCTCTGCTC | GGAAGACTAT | CTGCCTGAAG |
| 6001 | ATGGCATGTG | AGTTGGATGA | TATGGTTGGA | CGCTGGAAGA | CGTTGAAGCT | GGCGTCTGTG |
| 6961 | AGACCTACCG | CGTCACGCAC | GAAGGAGGCG | TAGGAGTCGC | GCAGCTTGTT | GACCAGCTCG |
| 7021 | GCGGTGACCT | GCACGTCTAG | GGCGCAGTAG | TCCAGGGTTT | CCTTGATGAT | GTCATACTTA |
| 7021 | TOUTGTOOCT | TTTTTCCA | CAGCTCGCGG | TTGAGGACAA | ACTCTTCGCG | GTCTTTCCAG |
| 71/1 | TACTCTTGGA | TCGGAAACCC | GTCGGCCTCC | GAACGGTAAG | AGCCTAGCAT | GTAGAACTGG |
| 7201 | TTGACGGCCT | GGTAGGCGCA | GCATCCCTTT | TCTACGGGTA | GCGCGTATGC | CTGCGCGGCC |
| 7261 | TTCCGGAGCG | AGGTGTGGGT | GAGCGCAAAG | GTGTCCCTAA | CCATGACTTT | GAGGTACTGG |
| 7721 | TATTTGAAGT | CAGTGTCGTC | GCATCCGCCC | TGCTCCCAGA | GCAAAAAGTC | CGTGCGCTTT |
| 7381 | TTGGAACGCG | GGTTTGGCAG | GGCGAAGGTG | ACATCGTTGA | AGAGTATCTT | TCCCGCGCGA |
| 7441 | CCCATAAAGT | TGCGTGTGAT | GCGGAAGGGT | CCCGGCACCT | CGGAACGGII | GITAATTACC |
| 7501 | TGGGCGCGA | GCACGATCTC | GTCAAAGCCG | TTGATGTTGT | GGCCCACAAT | GTAAAGTTCC |
| 7551 | AAGAAGCGCG | GGATGCCCTT | GATGGAAGGC | AATTTTTAA | GITCCTCGTA | GGIGAGCICI |
| 767 | | TGAGCCCGTG | CTCTGAAAGG | GCCCAGTCTG | CAAGATGAGG | GTTGGAAGCG |
| 7681 | ACGAATGAGC | TCCACAGGTC | ACGGGCCATT | ' AGCATTTGCA | GGTGGTCGCG | AAAGGILLIA |
| 7781 | AACTGGCGAC | CTATGGCCAT | TTTTTCTGGG | GTGATGCAGT | AGAAGGTAAG | CGGGTCTTGT |
| 7801 | TOCAGOGGE | CCCATCCAAG | GTCCGCGGCT | AGGTCTCGCG | CGGCGGTCAC | TAGAGGCTCA |
| 7061 | TOTOCCOCCA | ACTTCATGAC | CAGCATGAAG | : GGCACGAGCT | GCTTCCCAAA | GGCCCCCATC |
| 7027 | CAACTATAGG | : TCTCTACATC | GTAGGTGACA | . AAGAGACGCT | CGG GCGAGG | AIGCGAGCCG |
| 7001 | ATCCCCAACA | ACTGGATCTC | CCGCCACCAG | TTGGAGGAGT | GGC I GI I GA I | GIGGIGAAAG |
| נט <i>ב</i> - | TAGAAGTCCC | TGCGACGGGC | CGAACACTCG | TGCTGGCTTT | TGTAAAAACG | TGCGCAGTAC |
| 7741 | . Individious | | | | | |

| 8101 TGGCAGCGGT GCACAGGCTG TACATCCTCC ACAGGCTTGA CCTGACGACC GCGCACAAGG 8161 AAGCAGAGTG GGAATITIGAG CCCCTCGCCT GGCGGGTTTG GCTGGTTGTCTTCTTCTC 8281 CCGCCGAGC CCAAAGTCCA GATGTCCGG GCGGGGTTC GGAGCATCG GACCACCACG 8281 CCGCGCGAGC CCAAAGTCCA GATGTCCAGG GCCGCGGCGT CGGTGCATCG GACCACACG 8281 CCGCAGATGGA CCCTGTCCAT GGCTCTAGGC TCCCGCGGCG TCAGGTCAGG | 0101 | TEECAGCEGT | GCACGGGCTG | TACATCCTGC | ACGAGGTTGA | CCTGACGACC | GCGCACAAGG |
|--|-------|--------------|--------------------|--------------|-------------------|------------|--------------|
| 8221 GCTGCTTGTC CTTGACCGTC TGGCTGCTGG GGGGGGGTC GGAGCTTGAT GACAACATCG 8281 CCGCGGGGG CCAAAGTCCA GATGTCCGG GCGGGGGTC GGAGCTTGAT GACAACATCG 8401 TGCAGGTTTA CCTCGCATAG CCGGGTCAGG GCGGGGGGTC GGGCGGTCGATG 8401 TGCAGGTTTA CCTCGCATAG CCGGGTCAGG GCTCCAGGT GTTCAGGT ATACCTGATT 8461 TCCAGGGGCT GGTTGGTGGC GCGGTCGATG GCTTGCAGAG GCTCCAGGTG ATACCTGATT 8461 TCCAGGGGCT GGTTGGTGGC GCGGTCGATG GCTTGCAGAG GCCGCCGCC CCGCGGGGGG 8521 ACTACGGTAC CGCGCGGGG GCGGTGGGC CCCGGGGGGT CTTGAGAG GCGGCGCCC CCGGGGGGG 8521 ACTACGGTAC CGCGCGGGG GCGGTGGGC CCGGGGGGCT CGGACCCGCC GGGAGAGGGG 8641 GCAGGGGCAC GTCGGCCG CCCGCGGGGCA GGAGCTGGTG CTGGGCCCGG AGGACAGGG 8641 GCAGCGGCAC GTCGGCCG CGCGCGGCA GAGCTGGTG CTGCGCCCGG AGGACAGGG 8641 GCAGCGGAC CTTGAACCTG AAAGAGAGTT CCAACAGAATC AATTTCGGTG TCGTTGACGG 8761 GCCCGGTGAG CTTGAACCTG AAAGAGAGTT CTCCACGACAAATC 8761 GCCCGGTGAG CTTGAACCTG CAAAAATCTCC TGCACGTCTC CTGAGTTGTC TTGATAGGCG ATCTCGGCCA 8881 TGAACTGCTT GAACACTG CCCCCTTCCG CTGAGTTGTC TTGATAGGCG ATCTCGGCCA 8891 CGACCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGCC GCCATGACC ACCTGCGCGA 8941 CGAGGTCGTT GCAGAATCCC CCCCCTTCGG CATCGCGGGC GCCATGACT CACGGCCGC 8941 CGAGGTGGT GCCGGTGTGT TCTGCCACGA AGAAGTACAT AACCCAGCGC CCCCTGTTCC 9001 AGACCGGGCT GTAGACACG CCCCCTTCGG CATCGCGGGC CCCATGACT CACGGGCA 9181 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC CATCGCGGGC CCCATGACT CACGGCGA 9181 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC CTCATGGC CTCCTCAGGCT 9211 GGAGGTGGT GCCGGTGTC TCTGCCACAA AGAAGTACAT AACCCAAGGC CCCACACGGC 9211 GCTCGACAC AGTGTCCC CACCTGCGGA ACAAGCCGC CTCCATGGC 9211 GCTCGACAC AGTGCACAC CGTCAAGGC CTCCTCTTCTTCTTCTT 9361 CAATCTCCT TCCATAAGG CCCTCCACTTC CTCTCTCAAAAAACC CTCCCAGGCAACACGACACACACACACACACACACACACA | 0101 | AACCACACTC | GGAATTTGAG | CCCCTCGCCT | GGCGGGTTTG | GCTGGTGGTC | TTCTACTTCG |
| 8281 CGCGCGAGC CCAAAGTCCA GATCTCCGCG CGCGGCGTC GGAGCTIGAT GALCAALTG 8341 TGCAGGTTTA CCTCGCATTAG CCGGGTCAGG CGCGGCGTCAGG GGGAGCTCC 8461 TCCAGGGGCT GGTTGGTGGC GCGGTGGGCC GCGGGGGTCAGG GGCGGCACTCC CCGCGGCGG 8521 ACTACGGTTAC CGCGCGGG GCGGTGGGCC GCGGGGGTGT CCTTGGATGA TGCATCTAAA 8581 AGCGGTGAGG CGGCGGGGG CCCCGGAGGTA GGGGGGGGTC CTTGGATGA TGCATCTAAA 8581 AGCGGTGAGG CGGCGGGGC CCCGGAGGTA GGGGGGGCTC GGGACCCGC GGGAGAGGG 8641 GCAGGGGAC GTCGGCCGC CCCGGAGGTA GGGGGGGCTC GGGACCCGC GGGAAGAGGG 8701 CGAACGCGAC GACCGGGCG TTTAATCTCCT GAATCTGACA 8701 CGAACGCGAC GACCGGGCG TTTAATCTCCT GAATCTGACG 8701 CGACCCGGC CAAAATCTCC TGCACGTCT CTGATGATT CTGTTAACCGC 8811 TGAACTGCT GAACACGG CAAAATCTCC TGCACGTCT CTGATGACCAC 8811 TGAACTGCT GAACACGG CCCTCTGGAGAT CTCCGCGTC CGCTCGCCC 8811 TGAACTGCT GAACACGG CCCTCTGGCG CCAAGAATC AATTTCGGCG ATCTCGCGCCA 8811 TGAACTGCT GAACACGG CCCCTTCGG CAACAGAGC GTTGAAGCCC CCCCTTCTG 8941 CGAGGTGGT GTAGACCACG CCCCCTTCGG CAACAGAGC GTTGAAGCCC CCCCTGTTCC 8941 CGAGGTGGT GTAGACCACG CCCCCTTCGG CAACAGCGGC GTTGAGGCCT CCCTCTCTC 8941 CGAGGTGGT GTAGACCACG CCCCCTTCGG CATCGCGGC GTTGAGGCCT CCCTCTGTCACAGC 8941 CGAGGTGGT GTGGT TCTGCCACAGA AGAAGTACAT AACCCAGGCC GCCATGACC 8941 AGTTGAACA ACTGGCGC CACCTCCCCTT CTTCTCATGGCG 9121 TGAGGGTTGT ATCCCCCAAG AGAAGTACAT AACCCAAGGC CGCAACGTGG 9241 AGTTGAACA ACTGGCGC ACCTCCGCCT CAAGGC CTCCATGGC 9241 AGTTGAAAAA CTGGGAGTTGCGCC ACCTCCCCTT CTTCTTCTTC CCCCACAG AGACGGATGAT 9301 GCTCGGCGAC GCGACAGAGG CCCCCCCGAAC ACCGGGAAGAGC 9241 AGTTGAACACAG CCCCCCAAG CCCCCCCT CAAGGCCTC CCCCCTCAAGCC ACCTCGCGCAACGTGG 9241 AGACACCGCC CCCCTCCTTC CTCCCACCGAAGAAGACAGC CCCCCAAGACGAGAGACG 9241 AGACACGACG CCCCCCTT CTTCCCACAGA AGACGGATGAT 9301 CCCCACGAC ACGTCGCCC ACCTGCGCCCCCCCCCCCC | 0101 | CCTCCTTCTC | CTTGACCGTC | TGGCTGCTCG | AGGGGAGTTA | CGGTGGATCG | GACCACCACG |
| 8341 CGCAGATGGG AGCTGTCCAT GGTCTGGAGC TCCCGCGGGCT AGCTCCAGGTG ATACCTGATT 8401 TGCAGGGTTA CCTCGCATAG CCGGTCAGG GCCGGGGCTA GGCCCAGCTG ATACCTGATT 8521 ACTACGGTAC GGTCGGGGC GCGTCGATG GCTTGCAAGA GGCCGCATCC CCGCGCGCG 8521 ACTACGGTAC GCGCGGGGC CCCGGAGGTA GGGGGGGTA GGGACCGGC GGGAGAGGGG 8541 ACCAGGGGCAC GTCGGCGGCC CCCGGAGGTA GGGGGGCTC CTTGGATGA TGCATCTAAA 8581 AGCGGTGACC GTCGGCGGGC CCCGGAGGTA GGGGGGCTC GGGACCGGCC GGGAGAGGGG 8701 CGAACCGGAC GTCGGCCGG CCGCGCGGGCA GAACTGGCC CTCGGCGCGA AGACGGCGCGC GGGAGAGGGG 8701 CGAACCGGAC GACGCGGCGG TTGATCTCCT GAATCTGGCG CTTCTGCTAAAAACACGACG 8701 CGAACCGGAC GACGCGGCGG TTGATCTCCT CTGAGTTGTC TTGATCTGGCCA 8701 CGAACCGGAC GACAGCGCG CTAAACTTCC TCCACAGAATC AATTTCGGTC AAAAACCGC 8701 CGACGCTGCG CAAAATCTCC TCCTGAGATT CCACAGAACA ATTTCGGCCA 881 TGAACTGCTC GATCTCTTCC TCCTGAGACT CTCCGCGTC GCCTCCACGGTGCGCA 8941 CGAGGTCGTT GGAGATACGG GCCATGAACT CCCCCGTTCC 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGGC GCGCATGACC ACCTGCGCGA 9121 TGAGGGTGGT GCGGTGTGT TCTGCCACGA AGAAGTACAT AACCCAGCCC CCCACGGGA 9301 GCTCGGCGGA ACTGCTCCCAAG GCCTCAAGGC CCTCCATGACC ACCTGCGCGA 9301 GCTCGGCGAA ATTGCCCCAAG GCCTCAAGGC CCTCCATGGC CTCCTTCTCTTCT | 0221 | CCCCCCCACC | CCAAAGTCCA | GATGTCCGCG | CGCGGCGGTC | GGAGCTTGAT | GACAACATCG |
| 8401 TGCAGGTTTA CCTCGCATAG CCGGGTCAGG GCGCGGCTAG GGTTGCAGCA GGCCGCATCC CCGCGGCGCG S821 ACTACGGTAC CGCGCGGCG GCGGTGGGC GCGGTGGGC GCTTGCAGCA GGCCCGATCC CCGCGGGCGGC GCGGTGGGC CCCGGGGGGC CCCGGGGGCA GGGGGGGCT CCTTGGATGA TGCATCTAAA GGGGGGCAC GTCGGCGCG CCCGGGGGGA GGAGTGGTG CCTCGCGCGCG AGGTTGCTGGAGAGGGG GAACGGGAC GACGCGGCGG CCCGCGGGGA GGAGTTGGTG CTCGCGCGCG AGGTTGCTGGAGAGGGG GAACGGGAC GACGCGGCG TTGATCTCCT GAATCTGGCG CCTCTCCGTG AAACACGACGG AGGTTGCTGAGCG AGGTTGACCG CAAACACGACGG CACACGGACG CAAAAATCTCC TGCACGTCTC CTGAGTTGC CTCTTGCACGCA AATTTCGGCACACACACACG CCCCCTTCGCGCG CAAAACTCCC GCCCTCGCGC CACACGTGC CCCCCTTCCC CACGCGCCACACGC CAAAACTCCC CTCCGGAACCGC CGCCTGAGCC CACGCTCGCGCA CACACTCCC GCCCTCCCCCACGCCACACGCCC CACGCCCCTCCC GCCCCTCCGCGCC CACGCCCTCCC CCCCCTTCCC CACGCGCCC CACGCCCCTCCC CCCCCTTCCC CACGCGCCC CACGCCCTCCC CCCCCTTCCC CACGCGCCC CCCCCTTCCC CACGCGCCCACA CCACGCCCCCCCCCC | 0201 | CCCACACATCCC | AGCTGTCCAT | GGTCTGGAGC | TCCCGCGGCG | TCAGGTCAGG | CGGGAGCTCC |
| 8461 TCCAGGGGCT GGTTGGTGGC GGCGTCGATG 8521 ACTACGGTAC CGCGCGGGGG GCGGTGGCC GCGGGGGTC CCTTGGATGA TGCATCTAAA 8581 AGCGGTGACG CGGGCGGGCC CCCGGAGGTA GGGGGGGGCT CCTTGGATGA TGCATCTAAA 8581 AGCGGTGACG GTCGGCGCCG CCCGGAGGTA GGGGGGGGCTC 8701 CGAACGCGAC GACGCGCGGC TTGATCTCTC GAATCTGGCG CTTCGCGTG AAGACACACGC 8701 CGACCGGCAC GACGCCGCCG TTGAACCTCT GAATCTGGCG CTTCGCGTG AAGACACACGC 8701 CGACCGGTGAG CTTGAACCTCT AAAGACAGTT CAACACAAATC 8701 CGACCGGTCAG CAAAATCTCC TGCACCATCT CAACACAAATC AATTTCGGTT TCGTTGACGC 8701 CGGCCTGAGC CAAAATCTCC TGCACCATCT CTCACAGAATC AATTTCGGTC TGCTGACGCA 8701 CGGCCTGAGC CAAAATCTCC TCCTGGAGAT CTCCGCGTCC GCCTCGCTCC ACGTTGCCGC 8701 CGACCGGCG GAAAATCTCC TCCTGGAGAT CTCCGCGTCC GCCTCGCTCC ACGTTGCCGCA 8701 CGACCGGCC GATCATCTCT CTCCTGGAGAT CTCCGCGTCC GCCCTCACCTCC 8701 CGACGGTCGT GAACACCACG CCCCCTTCGG CATCGCGGCC GCCCATGACC 8701 GAACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGCC GCCCATGACC 8701 TGAGGGTGGT GGCGGTGTGT TCTGCCACGA AGAAGTACAT AACCCCAGCGC CCCCTTCCC 8701 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC GCTCCATGGC CTCCATGGC CAACGTGG 871 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC GCTCCATGAC CCTCCATGAC 871 ACTCGCGCGA AGTGTCCCCAAG GCCTCAAGGC CTCCATGGC CTCCATGGC CTCCATGAC 871 GCCCGCGACA AGTGTCCCCAAGGC GCCCCACAC AGAGGCTAC ACGCGGCCAACGTGG 8721 GGCACGGCAC AGTGTCCCCAAGGC GCCCCCACAC AGAGGCATCA CCTCCCACGC CTCCATGAC 8721 AGACGCCCCC CGCCAAAGCG CCCCCCGCCCCCCCCCC | 0341 | TCCACCTTTA | CCTCGCATAG | CCGGGTCAGG | GCGCGGGCTA | GGTCCAGGTG | ATACCTGATT |
| 8521 ACTACGGTAC CGGGCGGGG CCCCGGAGGTA GGGGGGGTT CCTTGGATAA ILCTAMA 8581 AGCGGTGAC GTGGGCCCG CGCGCGGGCA GGAGCTGGTG 8701 CGAACGCGAC GTCGGCGCG CGCGCGGGCA GGAGCTGGTG 8701 CGAACGCGAC GTCGGCGCGG TTGATCTCCT GAATCTGGCG CCTCTCCGTG AAGACCACGG 8701 CGAACGCGAC GACGCGGCGG TTGATCTCCT GAATCTGGCG CCTCTCCGTG AAGACCACGG 8701 CGCCCGGTGAG CTTGAACCTG AAAGACGATT CGACAAGAATC AATTTCGGTG TCGTTGACCGG 8701 CGCCCTGGCG CAAAATCTCC TGCACGTTCC CTGAGTTGTC TTGATAGGCG ATCTCGCGCA 8821 CGGCCTGGCG CAAAATCTCC TCCCGGGTC CTGAGTTGTC TTGATAGGCG ATCTCGCGCA 8821 CGAGGTCGT GGAGATCCCG CCCCTTCGG CCAGAGACGC 8941 CGAGGTCGTT GGAGATCCGG CCCCCTTCGG CCTCCGCTCC ACGGTGGCGG 8941 CGAGGTCGT GGAGACACG CCCCCTTCGG CATCGCGGGC GCGCATGACC ACCTGGTCC 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGGC GCGCATGACC ACCTGGTGC 9121 TGAGGGTGT GGCGGTGTT TCTGCCACGA AGAAGTACAT AACCCAGCGC CGCAACGTGG 9121 TGAGGGTGT GGCGGTGTT TCTGCCACGA AGAAGTACAT AACCCAGCGC CGCAACGTGG 9121 AGTTGAAAAA CTGGGAGTTG CGCGCCCACA CGGTTAACTC CTCCTCCAGA 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCCACA CGGTTAACTC CTCCTCCAGA AGACGGATGA 9301 GCTCGGCGAC AGTGTCGCC ACCTCCCTT CTTCTTCTTC 9361 CAATCTCCT TTCCATAAGG GCCTCCCCTT CTTCTTCTTC TTCTTCTTCT 9361 CAATCTCCT TCCATAAGG GCCTCCCCTT CTTCTTCTTCT TTGGCGGGGG CGCACGGCGGCGCGCGCGCGCCGCCCCCT CTCGCGCGCACA CGGGCAGCGCGCACA CGGCACGCGGA GCGCACGCGCGCACA CGGCACGCGCACA CGGCACGCGCACA CGGCACGCGCACA CGGCACGCGCACA CGCGCACGCA | 0401 | TCCAGGGGGCT | CCTCGCATAG | GGCGTCGATG | GCTTGCAAGA | GGCCGCATCC | CCGCGGCGCG |
| 8581 AGCGGTGACG CGGCGGCGC CCCGGGGGCA GGAGCTGGTG CTGGGCGGG AGGTTGCTGG 8641 GCAGGGGCAC GTCGGCGCCG CGCGCGGGACCTGGTG CTCGCGCGGG AGGTTGCTGG 8761 GCCCGGTGAC GTCGGCGCCG TTGATCTCCT GAATCTGGCG CTCTGCGTG AAGACACAGG 8761 GCCCGGTGAC CTTGAACCTG AAAGAGAGTT CGACAGAATC AATTTCGGTG TCGTTGACGG 8761 GCCCGGTGAG CTTGAACCTC TGCACCTTC CTGAGTTGTC TTGATAGCCG ATCTCCGCCA 8761 GCCCGGGCG CAAAATCTCC TGCACGTTC CTGAGTTGTC TTGATAGCGC ATCTCCGCCA 8761 GCACCGGCT GAACTCTCC TCCTGGAGAT CTCCGCGCTC GGCTCGCTCC ACGGTGGCGA 8761 GAACTGCTC GAACTCTCC TCCTGGAGAT CTCCGCGCTC GGCTCGCTCC ACGGTGGCGG 8761 GAACTGCTC GAACTACCC CCCCCTTCGG CATCGCGGG GCCATGAGCC ACCTGCGCGA 8761 GAACGCGCGC GTAGACCACG CCCCCTTCGG CATCGCGGG GCCATGAGCC ACCTGCGCGA 8761 GATTGAGCTC CACGTGCCGG GCGAACACGG CGTAGTTTCG CAGGCGCTGA AACACGTGCG 8761 GAATTGAGCTC CACGTGCTGT TCTGCCACGA AGAAGTACAT AACCCAGCGC GCAACGTGG 8761 ATTCCTTCAT ATCCCCCAAG GCCTCAAGGC GCTCCATGGC CTCCTCAGAA AACAGGGTAGA 87761 GCTGGGCGAA AGTGTCGCGC ACCTCGCGCT CAAAGGCTACA AACCCAGCGC GCAACGTGG 87761 CAATCTCCTC TTCCATAAGG GCCTCCCTT CTTCTTCTTCTTCTTCTTCTTCTTCTTCTTC | 0401 | ACTACGGTAC | CCCCCCCCCC | GCGGTGGGCC | GCGGGGGTGT | CCTTGGATGA | TGCATCTAAA |
| 8641 GCAGGGGCAC GTCGCGCGC CCCCGCGGGCA GGAGCTGGTG CTGCGCGCGA AGAGCGACGG 8701 CGAACGCAC GACGCGCGG TTGATCTCCT GAATCTGCCG CCTCTGCGTG AAGACGACGG 8711 CGACCGGTGAG CTTGAACCTG AAAGAGAGTT CGACAGAATC AATTTCGGTG TCGTTGACGG 8712 CGGCCTGCG CAAAATCTCC TGCACGTCT CTGAGGTTGTC TTGATAGGCG ATCTCGGCCA 8714 CGAGGTCGTT GAACTCGC GCCATGAGCT CCCGCGTCC GGCTCGCTCC ACGGTGGCGG 8714 CGAGGTCGTT GGAGATGCGG GCCATGAGCT GCGAGAAGGC GTTGAGGCCT CCCTCGTTCC 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGGC GCGCATGACC ACCTGCGCA 9016 GATTGAGCTC CACGTGCCGG GCGAAGACGG CTCCATGAGGC CTCCATGAGGCC 9121 TGAGGGTGGT GCGGGTGTT TCTGCCACGA AGAAGTACAT AACCCAGCGC CGCAACGACG 9121 AGTTGAAAAA CTGGGGAGTTG CGGGCCGACA AGAAGTACAT AACCCAGCGC CGCAACGAGG 9121 AGTTGAAAAA CTGGGGAGTTG CGGGCCGACA CGGTTAACTC CTCCTCCACAG 9241 AGTTGAAAAA CTGGGGAGTTG CGGGCCGACA CGGTTAACTC CTCCTCCACAA AGACGATGA 9301 GCTCGGCGAA AGTGTCCCCAAG GCCTCAAGGC CTCCATGAGC CTCCATGAGA AGACGATGA 9310 CAACTCTCTC TTCCATAAGG GCCTCCACGGC CAAAGGCTCA AGGGGCCTC TCTTCTTCTT 9361 CAATCTCCT TTCCATAAGG GCCTCCCCTT CTTCTTCTTC TGGCGGCGGGT AGACGACGG 9421 GGACACGGCG CGCACACACG CCCACCCGGA GCGGGTCGAC AAACGGCTCG ATCATCTCCC 9481 CCGGCGCACG GCGACGACGG CCCACCCGGA GCGGGTCGAC AAACGGCTCG ATCATCTCCC 9481 CGGCGCCACC GCGCACGACGG CCGCACCGGA GCGGGCCGCTT CTCCCACGGG GCGACGACGG 9481 CGGCGCCAACG CCGCCCCGTC TCTTCTTCTTC TGGCGGCGGG GCGACGACGG 9481 CGGCGCCAACG GCGACGACGC CCGACCCGGA GCGGCGCGCTT CCCCCCCCC ACCGACGACGACG 9481 CGGCGCCAACG GCGACAACGC CTCCCCTT CTTCTTCTTC TCCGCGGGGG GCGACCACGG AGACGACGC CACCCGGAAAAACC TCTCCGAGAAA GGCCTCAAC AGGGACCCGACACAGGC ATCACCCGCACCGAAAAACC TCTCGAAAAA GGCCCCCC AGCACACGACACAGT TCCACCGACACG AGGCCTTTTG AGGACCCCCC ACCACGAAGACACAT TCTCTTTTTCTTC TCTCTCTTTTTCTTC TCTCTCTCT TCTCCTC | 0501 | ACCECTEACE | CGCGCGGGGG | CCCGGAGGTA | GGGGGGGCTC | GGGACCCGCC | GGGAGAGGGG |
| 8701 CGAACGCGAC GACGCGGCGG TTGATCTCCT GAATCTGGCG CCTCTGACGACGACGGCGACGGCGACGACGCCCCCCTC GACGTGGCC AAAATCTCC TCCACAGAATC AATTTCGGTG TCGTTGACGCACGGCGC GACACTCGCCCCCCCCCC | 0001 | CCACCCCCAC | CTCGCCGCCC | CGCGCGGGCA | GGAGCTGGTG | CTGCGCGCGG | AGGTTGCTGG |
| 8761 GCCCGGTGAG CTTGAACCTG AAAGAGAGTT CGACAGAATC AATITCAGTG TCGTACAGE 8821 CGGCCTGGCG CAAAATCTCC TGCACGTCTC CTGAGTTGTC TTGATAGGCG ATCTCGGCCA 8881 TGAACTGCTC GATCTCTTCC TCCTGGAGAT CTCCGCGTCC GGCTCGCTCC ACGGTGGCGG 88941 CGAGGTCGTT GGAGATACGG GCCACTGAGCT GCGAGAAGACG CTTGAGGCG ACCTGCGCGA 9061 GATTGAGCTC CACGTGCCGG GCGAAGACG CGTAGTTTCG 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGGC 9061 GATTGAGCTC CACGTGCCGG GCGAAGACG CGTAGTTTCG 9121 TGAGGGTTGT CTGCCACGA AGAAGTACAT AACCCACGCC CGCAACGTGG 9121 TGAGGGTGGT GCGGGTGTTT CTGCCACGA AGAAGTACAT AACCCACGCC CGCAACGTGG 9121 AGTTGAAAAA CTGGGAGTTG CCCCCACA GCCTCAAGGC CTCCTTGAGAAG TCCACGGCGA 9241 AGTTGAAAAA CTGGGAGTTG CGCCCCACA CGGTTAACTC CTCCTCCAGA AGAAGTGA 9301 GCTCGGCGA AGTGTCGCCC ACCTCCCCTT CTTCTTCTT 9361 CAATCTCCT TTCCATAAGG GCCTCCCCTT CTTCTTCTTC 9481 CGCGCGCACG GCGACGACGG CGCACCACGGG GCGGCGCGT 9481 CGCGGCGCC CGTCATGTC CGGTGACACC CGGCGCGCGT 9541 AGACGCCGCC CGTCATGTC CCGGTTAGCG CTCCCCCTT CTCCCCCGT 9541 AGACGCCGCC CGTCATGTC CCGGTTAGCG CGCGCGCCGTT 9661 GCGAGTCCGC ATCGACCAC ACCATGTGC CGCACACGGGGGG GCGGCGCCGTT 9661 GCGAGTCCGC ATCGACCAC GTGGACACC CGGCGGCGGGG GCGCGCCCGTT 9721 CGCAAGGTAG GCTGACCAC GTGGCGAAACC TCTCGCAGAAA 9661 GCGAGTCCG ATCCACCGG TCCGACACAC GTGGCGGGGG GCGGCGCCCTT 9781 CGCAAGGTAG GCTGACCAC GTGGCGAAACC TCTCGCAGAAA 9841 GAAGCACCAT GTCCTTCTTCTTC TCTTCTTCT TCTTCTTCTTC TCTTCT | 0701 | CCAACCCCAC | GACGCGGCGG | TTGATCTCCT | GAATCTGGCG | CCTCTGCGTG | AAGACGACGG |
| 8821 CGGCCTGGCG CAAAATCTCC TGCACGTCTC CTCAGGTTGTC TTGATAGGCG ATCTCGGCCA 8881 TGAACTGCTC GATCTCTTCC TCCTGGAGAT CTCCGCGTCC 8941 CGAGGTCGTT GGAGATGCGG GCCATGAGCT GCGAGAAGGC GTTGAGGCCT CCCTCGTTCC 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGGC 9061 GATTGAGCTC CACGTGCCGG GCGAAGACGG CGTAGTTTCG 9121 TGAGGGTGGT GGCGGTGTGT TCTGCCACGA AGAAGTACAT 9121 TGAGGGTGGT GGCGGTGTGT TCTGCCACGA AGAAGTACAT 9121 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC GCTCCATGGC 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC 9301 GCTCGGCGA AGTGTCGCGC ACCTCCAGGC GCTCCATGGC 9421 GAACCTCCTC TTCCATAAGG GCCTCCCTC TTCTTTCTT 9361 CAATCTCCTC TTCCATAAGG GCCTCCCTC TTCTTCTTCTT 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GGCGGTCGAC 9481 CGCGGCGACG GCGCACACGG CGCACCGGGA GGCGGTCGAC 9481 CGCGGCGACG GCGCACGACGG CGCACCGGGA GGCGGTCGAC 9481 CGCGGCGACG CGCACGACGG CGCACCGGGA GGCGGTCGAC 9541 AGACGCCGC CGTCATGTC CGGTTAAGGG CGCGCGCGT 9481 CGCGGCGACG CGCACGACGG CGCACCGGGA GGCGGTCGAC 9541 AGACGCCGC CGTCATGTC CGGTTATGGG TTGGCCGGCGGT GGGGGAGGGG 9541 AGACGCCGC CGTCATGTC CCGGTTATGGG TTGGCGGCGGG GCGACGGGG 9541 AGACGCCGC CGTCATGTC CCGGTTATGGG TTGGCCGGCGG CGCCACGTGGA 9541 AGACGCCGC CGTCATGTC CACAAATTGTT GTGTAGGTAC TCCGCCACCG AGGACCTGA 9561 CCGCAGCTAAC GATGCATCTC AACAATTGTT TGTTAGGTAC TCCGCCACCG AGGACCCGA 9561 CCGAAGGTAG GCTGAGCAC CGGGCAGACCGG CGGGCGGGC GCGGCCGTC 9781 CGCAAGGTAG GCTGAGCAC CTGGAAAACC TCTCGAGAAA 9661 CCGAAGGTAG GCTGAGCAC CTGGAAAACC TCTCGAGAAA 9661 CTTCGTTTTG ACTCCACCGGA AGGCGGCG GCGGCCGGC AGGGGCG ATGGTCGACA 9961 CTTCTTTTTC TCCTTCCTC TTGTCTCTCT CAACAATTGCCCAAG 9961 CTTCTTTTTC TCCTTCCTCT TTGTCCTCCAC TTGCACCACGG CGCGCCCAAGCGCG ATGCCCACCGGC 10021 AGTTTGGCCG TAGGTGGCC CCTCTTCCTC CCATGCGTAT ATTGGCCTGC TCCACCACG 1021 TGTAAGTGCA GTGGACACG CCCCAAGCGCG CGCCCAAAACGC GCGCCCAACGCCGC TCCCCACCGC 1021 TGTAAGTGCA GTTGGCCATA ACCGCCC CAAAAAGTCG GCGCCAAAACGC GTAGCCGCC TCCACCACACACACACACACACACACACACACACACA | 0761 | CCCCCCTCAC | CTTGAACCTG | AAAGAGAGTT | CGACAGAATC | AATTTCGGTG | TCGTTGACGG |
| 8881 TGAACTGCTC GAGATCTCTTCC TCCTGGAGAT CTCCGCGTCC GGCTGCC CCCTGTGCG 8941 CGAGGTCGTT GAGACACG GCCATGAGCT GCGAGAAGGC 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGCG GCGCATGACC ACCTGCGCGA 9061 GATTGAGGCTC CACGTGCCGG GCGAAGACGG CGTAGTTTCG 9121 TGAGGGTGGT GGCGGTGTT TCTGCCACGA AGAAGTACAT AACCCAGCGC CGCAACGTGG 9181 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC GCTCCATGGC 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC 9301 GCTCGGCGA AGTGTCCGGC ACCTCCGCT CAAAGGCTCA AGGGGCCTCT TCTTCTTT 9361 CAATCTCCTC TTCCATAAGG GCCTCCCCTT CTTCTTCTTC TGGCGGCGGC GCGACGGGG 9421 GGACACGGCG GCGACAGAGG CGCACCGGGA GGCGGTCGAC AGAGGGCCTCT TCTTCTTCT 9361 CAATCTCCTC TTCCATAAGG GCCTCCCCTT CTTCTTCTTC TGGCGGCGGCT GGGGGAGGGG 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGGGCTCG ATCATCTCCC 9481 CGCGGCGAAG GCGCATGGTC CGGTAAGGC GCGCCCGTC 9481 CGCGGCGAAC GCGCACAGGG CGCACCGGA GGCGGCCGTT CTCGCGGGGG GCGACGGGGA 9541 AGACGCCCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCCGTGC GGCAAGGGATA 9661 CGGCGCTAAC GATCATCTC AACAATTGTT TGTGAGGGG GCTGCCCGTGC GGCAAGGGATA 9661 CGCAAGTCCG ATCAACCTC AACAATTGTT TGTGTAGGTAC TCCGCCACCG AGGACCTGA 9721 CGCAAGGTACG GCTGACACC GTGGCGGGG GCAGCGGGGG GCAGCGGGG GCGGCCGTTTAC 9781 CGGAAGTCCG ATCATCATC AACAATTGTT TGTTAGGTTCT GAGACGGGGG TTGTTTTCTG 9781 CGCAAGGTAC GCTGATGATG TAATTAAAGT AGGCGGTCTT GAGACGGGGG ATGGTCGAC 9841 GAAGCACCAT GTCCTTCGGT CCGGCCTGCT GAGACGGCGG ATGGTCGAC 9961 CTTCTTCTTC TCCTTCTCT TGTCCTCAT GAATAGCGCAC GCGGTCGGCC ATGGCCCAGG 9961 CTTCTTCTTC TCCTTCCTCT TGTCCTCAT GAATAGCGCTCT TACCCGCAAG CCCCTCATCG 10021 AGTTTGGCCAA GCCCGCACACCC CCTCTTCCTC CCATGCGTT GACCCCGC TGCACCAGG 10201 TGTAAGTGCA GCCAGACGC CCCTCTTCCTC CCATGCCTAC TACCCCCACG 1021 TGTAAGTGCA GCCCCAAAACGC CCCTCTTCCTC CAAAAACGC GTAGCCCCC TGCACCTGCC 1021 TGTAAGTGCA GCCCCCAAAAACGC TAAGCCCTTAAAG GCGCTAAA TATGGCCCC GTGTTGATGC 1021 TGTAAGTGCA GTTGGCCAATA ACGGACCAGT TAACGCCTTG GCCAAAAACGC GTAGCCCCGAAAACGC GCGGCGGGGGGGGCGGCGGGGGGGCGGGGGGGG | 0/01 | CCCCCCTCCCC | CAAAATCTCC | TGCACGTCTC | CTGAGTTGTC | TTGATAGGCG | ATCTCGGCCA |
| 8941 CGAGGTCGTT GGAGATECGG GCCATGAGCT GCGAGAAGGC GTGAGACTC ACCTGCGCGA 9061 GATTGAGCTC CACGTGCCGG GCGAAGACGG CATCACGCGGC CAGCGCATGACC CACTGCCGGA 9121 TGAGGGTGT GCGGTGT TCTGCCACGA AGAAGTACAT AACCCAGCGC CGCAACGTGG 9121 TGAGGGTGT ATCCCCCAAG GCCTCAAGGC CTCCATGGC CTCGTAGAAG TCCACGGCGA 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC CTCCTCCAGA AGAGGTAGA 9301 GCTCGGCGA CATGTCCGCG ACCTCGCGCT CAAAGGCTAC AGGGGCCTCT TCTTCTTCTT 9361 CAATCTCCTC TTCCATAAGG GCCTCCATTGC CTCCTCCAGA AGACGGATGA 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GCGGTCGAC AAAGCGCTCG ATCATCTCCC 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GCGGTCGAC AAAGCGCTCG ATCATCTCCC 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GCGGGTCGAC AAAGCGCTCG ATCATCTCCC 9421 CGCGGCGACG GCGACGACGG CGCACCGGGA GCGGGTCGAC AAAGCGCTCG ATCATCTCCC 9421 AGACGCCCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCGTGC GGCAGGTTGGA 9541 AGACGCCCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCGTGC GGCAGGTTGGA 9601 CGGCGTAAC GATGCATCTC AACAATTGTT GTGCGGGGG GCTGCCGTGC GGCAGGGATA 9601 CGGCGTAAC GATGCATCTC AACAATTGTT GTTGAGGAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGCG GCAGCGGGGG GCGCCCTCAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGG GCAGCGGGGG GCGGCTCAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGCG GCAGCGGGGGG GCAGCGGGGG GCGGCGGGGGG GCGGCGGCG GCGAGCGGCG GCAGCGGCG GCAGCGGCG GCAGCGGCG GCAGCGGCG GCAGCGGCG GCAGCGGCG GCAGGCGC GCCAGGCGC GCCAGGCGCG GCAGCGCGC GCCAGGCGCG GCAGCGCGCG CTTCCTCT TCTCTCTCT TCTCTCTCT TCTCCTCCT TCTCCTC | 0021 | TCAACTCCTC | GATCTCTTCC | TCCTGGAGAT | CTCCGCGTCC | GGCTCGCTCC | ACGGTGGCGG |
| 9001 AGACGCGGCT GTAGACCACG CCCCCTTCGG CATCGCGGGC GUGACIGACC ACCIGAGCA 9061 GATTGAGCTC CACGTGCCGG GCGAAGACGG CGTAGTTTCG CAGGGCGCTGA AAGAGGTAGT 9121 TGAGGGTGGT GGCGGTGTGT TCTGCCACGA AGAAGTACAT AACCCACGGC CGCAACGTGG 9181 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC GCTCCATGGC CTCGTAGAAG TCCACGGCGA 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC CTCCTCCAGA AGACGGATGA 9301 GCTCGGCGAC AGTGTCGCGC ACCTCCGCGCT CAAAGGCTAC AGGGGCCTCT TCTTCTTCTTC 9361 CAATCTCCCT TTCCATAAGG GCCTCCCCTT CTTCTTCTTC TGGCGGGGT GGGGGAGGGG 9421 GGACACGGCG GCGACCGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCCC 9481 CGCGGCGACG GCGCACGG CGCACCGGGA GGCGGCCGTT CTTCGCGGGGG 9421 AGACGCCGC CGTCATGGTC CGGTGACAGG CGCGGCCGTT CTCGCGGGGG CGCACTGGACG CGCACCGGACGG CGCACCGGACGG CGCGCCCGTC CTCGCGGGGG CGCACCGGACGG CGCACCGGACGG CGCGCCGCTCT CTCGCGGGGG CGCACTGGACGACGG CGCACCGGACGG CGCGCCGCTT CTCGCCACCG AGGCACCGACGG CGCACCGGAAAACC TCCGCCACCG AGGCACCTGAACACCACTAC AACAATTGTT GTGTAAGGTAC TCCGCCACCG AGGCACCTGA 9661 GCGAGTCCGC ATCGACCAGCA CGTGGGCGG GCAGCGGCG GCCGGCCGCG CCGCACCGAACGACACG CTCGCAAAGCACC CTCGCAAAGCACC TCCGCAACGACACC GTGGCGGGG GCTGCCCCACCG AGGCACCAGT 9781 CGCAAAGGTACT GCTGATCACT CAACAATTGTT GTGTAAGGTAC TCCGCCACCG ATGGCCCCACGGAACGC CTCGCAAAGCACC CTCGACACACG GCCGGCGCG GCGGCCGGC GCGGCGCGGC GCGGCG | 0001 | CCACCTCCTT | GGAGATGCGG | GCCATGAGCT | GCGAGAAGGC | GTTGAGGCCT | CCCTCGTTCC |
| 9061 GATTGAGCTC CACGTGCCGG GCGAAGACGG CGTAGTTTC CAGGCGCTA AACACGTTG 9121 TGAGGGTGGT GGCGGTGTGT TCTGCCACGA AGAAGTACAT AACCCCAGCGC CGCAACGTGG 91241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTCATGGC CTCCTCAGA AGACGCAGAG TCCACGGCGA 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC CTCCTCCAGA AGACGGATGA 9301 GCTCGGCGAC AGTGTCGCGC ACCTCCCCTT CTTCTTCTTC TGGCGGCGT AGAGCGCGG 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCC 9481 CGCGCGCACG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCC 9481 CGCGCGCACG CGCACTGGTC CGGTTATGGG TTGGCGGGGG GCGCACCGGG CGCACCGGA GCGCGCCGCTT CCTCCCGGGG CGCACTGGA 9561 CGGCGCTAAC GATGCATCCC AACAATTGTT GTGTAGGTAC CCCCCACCG AGGGACCTGA 9661 CGCGCACTAC GATGCACCGA TCGGACAGAC TCTCCAGCACAG GCCGCCCCCGAAC GCCGCCCCCGAAC 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGGG GCGGCCTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGGCG GCGGCCCGCACCGAAC 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGGCG GCGGCCTGCAC 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGGCG GCGGCCTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCCGCACCGGA TAATTAAAGT AGGCGGTCTT GAACGCCCAC GCGGTCGGG TTGTTTTCTGG 9781 CGGAGCCCCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAACGCCGGC ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTCT GAATGCCCAG GCGGTCGGC ATGGTCGACA 9901 CTTCGTTTTT CTCTTCCTCT TGTCCTGCAT CTTCTGCATC TATCGCTGCGC ATCCCCAGG 9901 CTTCGTTTTT CTCTTCCTCT TGTCCTGCAT CTTCTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGCCC TGCAGCACC CCCTCTTCCTC CCATGCGTT TAACGGCCTT TATCGCCCAGG 10201 TGTAAGTGCA GTTGGCCACA ACGGCCTT TAACGGTCTG GTATCCCCCAGC 1021 TGTAAGTGCA GTTGGCCACA ACGACCTT CCAACATAAG GCGGCTGCT GCCAACACT 1021 TGTAAGTCCA GAACACCC GCGGCGGGG GGCGGCGG GCGGCGGGGGGGCGGGGGCGGGGGG | 0001 | ACACCCCCCT | CTACACCACG | CCCCCTTCGG | CATCGCGGGC | GCGCATGACC | ACCTGCGCGA |
| 9121 TGAGGGTGGT GGCGGTGTT TCTGCCACGA AGAAGIACAT AACCCAGGGC CGCACAGG GCCTCAAGGC GCTCCATGGC CTCGTAGAAG TCCACGGCGA P241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC CTCCTCCAGA AGACGGATGA P301 GCTCGGGAC AGTGCCGCGC ACCTCGCGCT CAAAGGCTAC AGGGGCCTCT TCTTCTTCTT P361 CAATCTCCTC TTCCATAAGG GCCTCCCTT CTTCTTCTTC TGGCGGCGGC GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCC AAAGCGCTC CTCGGGTGACG P421 GGACACGGCG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCCC P481 CGCGGCGCC CTCTATGTC CGGTTAACGG CGCGGCCGTT CTGCGGGGG CGCACGTGGAC GCGCACGGCG CGCACGGGG CGCACGGGG CGCACGTGGT CTGGTAACGG CGCGGCCGTT CTGCGGGGG CGCAGGTGGA P361 AGACGCCGCC CTCTATGTC CGGTTATGGG TTGGCGGGGG GCCACGTGGA AAACGCGCTCG ATCATCTCCC CGGTTATGGG TTGGCGGGGG GCCACGTTGGA P661 GCGAGTCCG ATCCATCTC AACAATTGTT GTGCGGGGG GCCGCGTCACC AGGGACCTGA P661 GCGAGTCCG ATCCACCGA TCGGAAAACC TCTCGAGAAA GCCGCTCACC AGGGACCTGA P661 GCGAGTCCG ATCCACCGA TCGGCAAAACC TCTCGAGAAAA GGCGGTCTAAC CAGTCACAGT P721 CGCAAAGGTAG GCTGAGACAC GTGGCGGGCG GCAGCGGCG GCGGTCGGG ATGCTCACAGT P781 CGGAAGGTCG GCTGATGATG TAATTAAAGT AGGCGGCCG GCGGTCGGC ATGCCCAAGG P901 CTTCGTTTT ACTTCCTCT TTGTCTGCTGCA ACATCGGCCA AGGCGTCTT GAAGCGCT TCTTCTTCT TCCTTCCTCT TTGTCTCTCTT TTGTCTGCACA ACATGGCCTT TCTTCCTCCACAGC P901 CTTCTTCTTC TCCTTCCTCT TTGTCTCTCATC TATCACGCCA AGGCCGCGCGCGCG GCGGCGGCGCG GCGCAGAGCC CCCCTCTTCCTC CCATGCGTCT TATCGCCCAAG CCCCCCAAGCCC AGGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGC | 9001 | CATTCACCTC | CACCTCCCG | GCGAAGACGG | CGTAGTTTCG | CAGGCGCTGA | AAGAGGTAGT |
| 9181 ATTCGTTGAT ATCCCCCAAG GCCTCAAGGC GCTCCATGGC CTCGTAGAAG AGACGGAGA 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC 9361 CACTCGCGAC AGTGTCGCGC ACCTCGCGCT CAAAGGCTAC AGGGGCCTCT TCTTCTTCTT 9361 CAATCTCCTC TTCCATAAGG GCCTCCCCTT CTTCTTCTTCTT GGGCGCGGGG GCGACGACGG GCGACCGGGA GCCGCGCGGA GGCGGTCGAC AAAGCCGCTC ATCATCTCCC 9481 CGCGGCGACG GCGCACGGCG CGCACCGGGA GGCGGCCGTT CTCGCGGGGG GCGCACTGGAC 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTCCCCTT CTCGCGGGGG CGCAGTTGGA 9601 CGGCGCTAAC GATCCATCTC AACAATTGTT GTGTAGGTAC TCCGCCACCG AGGACCTGA 9661 GCGAGTCCGC ATCGACCAC TCGGAAAACC TCTCGAGAAA GCGGTCCACC AGGACCTGA 9721 CGCAAGGTAG GCTGATGATG TAATTAAAGT AGGCGGCGC GCGGTCCAGC ATGCCCCACG 9781 CGGAGGTCCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAAGACGCGCG ATGCTCCACAG 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCCCAAG GCGGTCGGC ATGCCCCAGG 9901 CTTCTTTTT ACATCACGCGC CCGCCTGCT GAATGCCCAAG GCGGTCGGC ATGCCCCAGG 9901 CTTCTTTTT ACATCACCGCC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10021 AGTTTGGCCG TAGGTGGC CCTCTTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10021 AGTTTGGCCG TAGGTGGCC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10021 AGTTTGGCCG TAGGTGGCC CCTCTTCCTC CCATGCGTG GACCCCGAAG CCCCTCATCG 1021 TGTAAGTGCA GTGGAGGTCG CCCCTCTTCCTC CCATGCGTG GACCCCGAAG CCCCTCATCG 1022 CCGGTTACCT GAGACGCGAG TCAACACGGTT TAACGCCCG GTGACCCCGC TGCACCTGCG 1024 TGTAAGTGCA GTGGCCATA ACGGACACGC GCTCGGCTA TATGGCCTGC TGCACCTGCG 1025 CGGGTACCT GAGACGCGAG TCAACGCCTT CCAACACGC GTGACCCGC TGCACCTGCG 1026 CGGTTACCT GAGACGCGAG TCAACGCCTT CCAACACGC GTGACCCGC TGCACCCGCA 10321 CCAGGTACCT GAGACGCGAG TCAACGCCTT CCAACACACG TAACCCCTTC CCAACACACG TAACCCCTTC TCCACCTGC GCGGCGGAAAG TCCCCCCAACGCCTA 10321 CCAGGTACCT GAGACGCAG CCCCCCAAAAAAGTGCG CCCCCAAAAACGC GCGGCAAAAACGC GCGCAAAAACGCGCAC TAACCCCGC TGCACACACCC CAAAACGCCCC TCCACCCGC GCGCGCAAAAACGC GCGCCGCAAAAACGC GCCCCCCCC | 0101 | TCACCCTCCT | CACGTGTGTGT | TCTGCCACGA | AGAAGTACAT | AACCCAGCGC | CGCAACGTGG |
| 9241 AGTTGAAAAA CTGGGAGTTG CGCGCCGACA CGGTTAACTC CTCCTCAGA AGACGGTGA AGACGGATGA 9301 GCTCGGCGAC AGTGTCGCGC ACCTGCGCT CAAAGGCTAC AGGGGCCTT TCTTCTTCTT 9361 CAATCTCCTC TTCCATAAGG GCCTCCCCTT CTTCTTCTT TGGCGGCGGT GGGGGAGGGG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCCC 9481 CGCGGCACG GCGCATGGTC TCGGTGAACGG CGCGGCCGTT CTCGCGGGGG CGCAGTTGGA 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCGTC GGCAAGGATA 9601 CGGCGCTAAC GATGCATCTC AACAATTGTT GTGTAGGAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGACCGA TCGGACAACC TCTCCGAGAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGACCACC GTGGCGGCG GCAGCGGCG GCAGCGGCG GCGGTCGGC AAGCACCAGT 9741 CGCAAGGTAG GCTGAGCACC GTGGCGGCG GCAGCGGCG GCAGCGGCG GCGGTCGGC ATGCCCACGA 9841 GAAGCACCAT GCCTTGGGT CCGGCCTGCT GAATGCCCAAG 9901 CTTCGTTTTG ACATCGGCC AGGTCTTTGT AGTGAGCCAG GCGGTCGGC ATGCCCAAGG 9901 CTTCGTTTTG ACATCGGCC AGGTCTTTGT AGTGAGCCT TCTCCTCCTCT TCTTCCTCT TCTTCCTCT TCTTCCTCT TCTTCCTCT TCTTCCTCT TCTTCCTCT TCTTCCTCC | 0101 | ATTOCTTOAT | ATCCCCCAAG | GCCTCAAGGC | GCTCCATGGC | CTCGTAGAAG | TCCACGGCGA |
| 9301 GCTCGGCGAC AGTGTCGCGC ACCTCGCGT CAAAGGCTAC AGGGGCTCT TCTTCTTCTT 9361 CAATCTCCTC TTCCATAAGG GCCTCCCCTT CTTCTTCTTCTT 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCCC 9481 CGCGGCGACG GCGCACGGC CGCACCGGGA GGCGGCGCGT CTCGCCGGGG GCGCACGGGG 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCCGGCGGG GCGCACCGGATA 9601 CGGCGCTAAC GATGCATCTC AACAATTGTT GTGTAGGTAC TCCGCCACCG AGGACCTGA 9601 GCGAGTCCGC ATCGACCGGA TCGGAAAACC TCTCGAGAAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGC GCAGCGGGCG GCGGTCGGG ATGGTCACAGT 9781 CGGAAGGTAG GCTGAGCACC GTGGCGGGC GCAGCGGGCG GCGGTCGGG ATGGTCACAGT 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGACCCTG GAGACGCGG ATGGTCGACAA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCATC CATGAGCCTT TCTACCGGCAAG 9961 CTTCTTCTTC TCCTTCTTCTTC TCCTCCTC TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGCGGC | 9101 | ATTEAAAAA | CTCCCCCTCC | CGCGCCGACA | CGGTTAACTC | CTCCTCCAGA | AGACGGATGA |
| 9361 CAATCTCCTC TTCCATAAGG GCCTCCCCTT CTTCTTCTTC TGGCGGCGGT GGGACAGGGG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCCC 9481 CGCGGCGACG GCGCATGGTC TCGGTGACGG CGCGGCCGTT CTCGCGGGGG CGCAGTTGGA 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCCGGGGG GCTGCCGTGC GGCAGGGATA 9601 CGGCGCTACC GATCCACCGA TCGGAAAAACC TCTCGAGAAAA GCCGCCCACCG AGGGACCTGA 9661 GCGAGTCCGC ATCGACCACC GTGGCGGGCG GCAGCGGGCG GCAGCCGCGC ATCGACCACC GTGGCGGGCG GCAGCGGCGG GCAGCGGCGG GCGGCTCTAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGCGG GCAGCGGCGG GCGGTCCGGG TTGTTTCTGG TCGGAGAAAACC TCTCGAGAAAA GCGGGCGC GCGGTCCGGG TTGTTTCTGG TCGGAGACAC GCGGCGCG ATGGTCCACAG GCGGCGCG ATGCCCCAGG 9791 CTTCGTTTTG ACATCGGCG AGGTCTTTGT AGTAGTCTT ACATCACCGCA 9901 CTTCGTTTTT TCCTTCCTC TGCCTCT TGTCCTCCAC CAAGCGCG GCGGTCGGC ATGCCCCAGG 9901 CTTCGTTTTT TCCTTCCTC TGCTCTCTCT TGTCCTGCAT TATCGCTCC GCGGCGCG AGGTCGGCG AGGTCGGCG AGGTCCGCC AGGTCTTTGT ACATCACCC CCATGCGTT TCTACCGCCA GCGCGCGCGCG TCCTTCCTC TCCTTCCTC CCATGCGTT TATCGCTCC GCGCGCGCGCGCGCGCCG TGCGAAGCAC GCCCCTCATCG TAGCGCCC TGCAAGCAC GCCCCCAAG CCCCTCATCG TAGCGCCC TGCAAGCAC GCCCCCCAAG CCCCTCATCG TAGCGCCC GGCACAACGC GCCGCGCGCG GCCCCCCCCC | 0201 | CCTCCCCCAC | AGTGTCGCGC | ACCTCGCGCT | CAAAGGCTAC | AGGGCCTCT | TCTTCTTCTT |
| 9421 GGACACGGCG GCGACGACGG CGCACCGGGA GGCGGTCGAC AAAGCGCTCG ATCATCTCCC 9481 CGCGGCGACG GCGCATGGTC TCGGTGACGG CGCGGCCGTT CTCGCGGGGG CGCAGTTGGA 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCGTGC GGCAGGTAC 9601 CGGCGCTAAC GATGCATCTC AACAATTGTT GTGTAGGTAC TCCGCCACCG AGGGACCTGA 9661 GCGAGTCCGC ATCGACCGGA TCGGCAAAACC TCTCGAGGACA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGATGATG TAATTAAAGT AGCGGTCTT GAGACAGCGGGG GCAGCGGGCG 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGCGGGTCTT GAGACAGCGGG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTT ACATCGGCGC AGGTCTTTGT AGTAGTCTTT CTTCTCTC TCCTTCCTCT TCCTTCCTCT TGTCCTGCAT TATCGCTGCG GCGGCCGGCGGCG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTTCCTC CCATGCGTT TAATGGCCTGC GCGCCGCGGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATCCCGC GTGTTGATG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCACCTGCG 1021 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC GTGTTGATG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GCGGAAAAGT CCCAGGTAACAGAC GTAGTCCGCC TGCGAGAGCT 10201 TGTAAGTGCA GTTGCCCACC AAAAAGTGCG GCGGCGGCTG GCGACAACAGAC GTAGTCGTTG CCAGGACCGTA 10321 CCAGGTACCT GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGAAAAAGT CCCAGGACGCTA TAACGGCCTC TGGCCGGCAAAAAGT CCCAGCGAAAAAGT CCCAAAAAGT GCGCACCGCA GCGCAGCACACACACACACACACACACA | 0361 | CAATCTCCTC | TTCCATAAGG | GCCTCCCCTT | CTTCTTCTTC | TGGCGGCGGT | . GGGGGAGGGG |
| 9481 CGCGGCGACG GCGCATGGTC TCGGTGACGG CGCGGCCGTT CTCGCGGGGG CGCAGTTGAC 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCGTGC GGCAGGGATA 9601 CGGCGCTAAC GATGCATCTC AACAATTGTT GTGTAGGTAC TCCGCCACCG AGGGACCTGA 9661 GCGAGTCCGC ATCGACCGGA TCGGAAAACC TCTCGAGAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGCG GCGGTCTAAC CAGTCACAGT 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGGCGGCTTT GAGACGCGG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCCCAGG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCG 10021 AGTTTGGCCG TAGGTGGCC CCTCTTCCTC CCATGCGTGT GACCCCCGAAG CCCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC GCGGCGGCGC 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTC GTGACCCGC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGC GTGTTGATGG 1021 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCGC GCGGCGGCGTAA 10321 CCAGGTACTG GTATCCCACC AAAAAAGTGCG GCGGCGGCGCT CCAAGCCGTTA 10321 CCAGGTACTG GTATCCCACC AAAAAAGTGCG GCGGCGGCGG GCGCGCAAAAGT CCAGGTATT CCAACAAAAGT CCAAGACGCGTTA 10321 CCAGGTACTG GTATCCCACC AAAAAAGTGCG GCGGCGGCGCG GCGCGGAAAAGT CCAGGTGATG CCAGGCGCGCG GCGGCGGCGTAA 10321 CCAGGTACTG GTATCCCACC CAGGGCGCG TAGGCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC | 0/21 | CCALCICCIC | GCGACGACGG | CGCACCGGGA | GGCGGTCGAC | AAAGCGCTCG | ATCATCTCCC |
| 9541 AGACGCCGCC CGTCATGTCC CGGTTATGGG TTGGCGGGGG GCTGCCGTGC GGCAGGGATA 9601 CGGCGCTAAC GATGCATCTC AACAATTGTT GTGTAGGTAC TCCGCCACCG AGGGACCTGA 9661 GCGAGTCCGC ATCGACCACC GTGGCGGCG GCAGCGGCG GCAGCGGCG GCGGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGCG GCAGCGGGCG GCAGCGGCG GCGGTCGGG TTGTTTCTGG 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAGACCGCG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTTC TCCTTCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATCCCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGC GTGTTGATGG 1021 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG CCCAACAATAAG GCGCAACAGAC CCCAGCGTA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG CCAACAATAAG GCGCAGCGTT CCAACATATC CCGTAGATGT 10441 ACCTGGACAT CCAGGGGG GGCTCCGGGG GGCACACCGC GCGGCGGCGCGCGCGCGCGCGC | 0/121 | | GCGCATGGTC | TCGGTGACGG | CGCGGCCGTT | CTCGCGGGGG | CGCAGTTGGA |
| 9601 CGGCGCTAAC GATGCATCTC AACAATTGTT GTGTAGGTAC TCCGCCACCG AGGGACCTGA 9661 GCGAGTCCGC ATCGACCGGA TCGGAAAACC TCTCGAGAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGGCG GCAGCGGGCG GCGGTCGGGG TTGTTTCTGG 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAGACCGCGG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGACAAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACAAAGAC GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGGACAGCT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAAGA TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CCGGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CCGGGACGCTC TGGCCGGTCA 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CCGGGACACCC GGGCACCTC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CCGGGCACCTC 10501 GGTTCCAGAT TTGGCCAGC GGCAAAAAGT GCTCCATGGT CCGGCCGCTC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAAGT GCTCCATGGT CCGGGCACCTC 10501 GGCCGCGCA GTCGTTGACG CTCTAGACCG GGACACCGG GGTTCGAACCC 10501 CCGGATCCGC CCGCTCGCG GGTTCCACCC CCGCTTAAA ACCCAGGTGT | 9401 | | CGTCATGTCC | CGGTTATGGG | TTGGCGGGGG | GCTGCCGTGC | GGCAGGGATA |
| 9661 GCGAGTCCGC ATCGACCGGA TCGGAAAACC TCTCGAGAAA GGCGTCTAAC CAGTCACAGT 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGCG GCAGCGGCG GCGGTCGGGG TTGTTTCTGG 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAGACGGCGG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT CCAGGTGATG CCGGCGGCGG TGGCGGAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAAGGA GAGCCTGTAA GCGGGCACTC 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAAGGA GAGCCTGTAA GCGGGCACTC 10561 CGCGCGCCCA GTCGTTGACG CTCTAGACCG GGACAACCGG GGTTCCGAACCC 10561 CGCGCGCCCA GTCGTTGACG CTCTAGACCG GGACAACCGG GGTTCCGAACCC 10561 CGCGCGCCCA GTCGTTGACG CTCTAGACCG GGACAACCGG GGTTCCGACCC 10561 CCGCGCCCCA GTCGTTCGCCG TGATCCACCG CGCGTTACCCCC CGCGTTCGAACCC 10561 CCGCGCCCCA GTCGTTCGCCG TGATCCACCC CCCCGCGTCA ACCCAGGTGT | | | GATGCATCTC | AACAATTGTT | GTGTAGGTAC | TCCGCCACCG | AGGGACCTGA |
| 9721 CGCAAGGTAG GCTGAGCACC GTGGCGGCCG GCAGCGGCCG GCGGTCGGGG TTGTTTCTGG 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAGACGGCGG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATCCGCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAAG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGGTAGAAG GGCCAGCGTA 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAAGGA GAGCCTGTAA GCGGGCACTC 10561 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10561 CCGGATCCGC CCGTCCGCG TGATCCATGC CCGCGTGTCA ACCCAGGTGT | 9661 | GCGAGTCCGC | ATCGACCGGA | TCGGAAAACC | TCTCGAGAAA | GGCGTCTAAC | CAGTCACAGT |
| 9781 CGGAGGTGCT GCTGATGATG TAATTAAAGT AGGCGGTCTT GAGACGCGG ATGGTCGACA 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAAGACT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGGTAGAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAAGGA GAGCCTGTAA GCGGGCACTC 10561 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10581 CCGGATCCGC CCGTCGCCG TGATCCATGC GGTTACCGCC CGCGTGTCAA | 0721 | CCCAACGTAG | GCTGAGCACC | GTGGCGGGCG | GCAGCGGGCG | GCGGTCGGGG | TTGTTTCTGG |
| 9841 GAAGCACCAT GTCCTTGGGT CCGGCCTGCT GAATGCGCAG GCGGTCGGCC ATGCCCCAGG 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATCCGCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10321 CCAGGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10621 TCCGGGTCCG CCGTCGCG TGATCCATGC GGTTACCGCC CGCGTGTCGA ACCCAGGTGT | 9721 | | GCTGATGATG | TAATTAAAGT | AGGCGGTCTT | GAGACGGCGG | ATGGTCGACA |
| 9901 CTTCGTTTTG ACATCGGCGC AGGTCTTTGT AGTAGTCTTG CATGAGCCTT TCTACCGGCA 9961 CTTCTTCTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGG 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTT GACCCCGAAG CCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 9701 | GAAGCACCAT | GTCCTTGGGT | CCGGCCTGCT | GAATGCGCAG | GCGGTCGGCC | ATGCCCCAGG |
| 9961 CTTCTTCTC TCCTTCCTCT TGTCCTGCAT CTCTTGCATC TATCGCTGCG GCGGCGGCGCGCGCGCGCGCGCGCGCGCGCG | 9901 | CTTCGTTTTG | ACATCGGCGC | AGGTCTTTGT | AGTAGTCTTG | CATGAGCCTT | TCTACCGGCA |
| 10021 AGTTTGGCCG TAGGTGGCGC CCTCTTCCTC CCATGCGTGT GACCCCGAAG CCCCTCATCG 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 9961 | CTTCTTCTTC | TCCTTCCTCT | TGTCCTGCAT | CTCTTGCATC | TATCGCTGCG | GCGGCGGCGG |
| 10081 GCTGAAGCAG GGCCAGGTCG GCGACAACGC GCTCGGCTAA TATGGCCTGC TGCACCTGCG 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 10021 | AGTTTGGCCG | TAGGTGGCGC | CCTCTTCCTC | CCATGCGTGT | GACCCCGAAG | CCCCTCATCG |
| 10141 TGAGGGTAGA CTGGAAGTCG TCCATGTCCA CAAAGCGGTG GTATGCGCCC GTGTTGATGG 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 10081 | GCTGAAGCAG | GGCCAGGTCG | GCGACAACGC | GCTCGGCTAA | TATGGCCTGC | IGCACCIGCG |
| 10201 TGTAAGTGCA GTTGGCCATA ACGGACCAGT TAACGGTCTG GTGACCCGGC TGCGAGAGCT 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCCGGCACCC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 10141 | TCACCCTACA | CTGGAAGTCG | TCCATGTCCA | CAAAGCGGTG | GTATGCGCCC | GIGIIGAIGG |
| 10261 CGGTGTACCT GAGACGCGAG TAAGCCCTTG AGTCAAAGAC GTAGTCGTTG CAAGTCCGCA 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 10201 | TCTAACTCCA | GTTGGCCATA | ACGGACCAGT | TAACGGTCTG | GTGACCCGGC | TGCGAGAGCT |
| 10321 CCAGGTACTG GTATCCCACC AAAAAGTGCG GCGGCGGCTG GCGGTAGAGG GGCCAGCGTA 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 10261 | CCCTCTACCT | \cdot GAGACGCGAG | TAAGCCCTTG | AGTCAAAGAC | GIAGICGIIG | CAAGTCCGCA |
| 10381 GGGTGGCCGG GGCTCCGGGG GCGAGGTCTT CCAACATAAG GCGATGATAT CCGTAGATGT 10441 ACCTGGACAT CCAGGTGATG CCGCGGGGGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10681 CCGGATCCGC CCGTCCGCCG TGATCCATGC GGTTACCGCC CGCGTGTCGA ACCCAGGTGT | 10321 | CCACCTACTC | GTATCCCACC | . AAAAAGTGCG | GCGGCGGCTG | GUGGTAGAGG | GGCCAGCGTA |
| 10441 ACCTGGACAT CCAGGTGATG CCGGCGGCGG TGGTGGAGGC GCGCGGAAAG TCACGGACGC 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10681 CCGGATCCGC CCGTCCGCCG TGATCCATGC GGTTACCGCC CGCGTGTCGA ACCCAGGTGT | 10381 | CCCTCCCCC | : GGCTCCGGGG | GCGAGGTCTT | CCAACATAAG | GCGATGATAT | CCGTAGATGT |
| 10501 GGTTCCAGAT GTTGCGCAGC GGCAAAAAGT GCTCCATGGT CGGGACGCTC TGGCCGGTCA 10561 GGCGCGCGCA GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10681 CCGGATCCGG CCGTCCGCCG TGATCCATGC GGTTACCGCC CGCGTGTCGA ACCCAGGTGT | 10//1 | ACCTGGACAT | · CCAGGTGATG | CCGGCGGCGG | TGGTGGAGGC | GCGCGGAAAG | ICACGGACGC |
| 10561 GGCGCGCGC GTCGTTGACG CTCTAGACCG TGCAAAAGGA GAGCCTGTAA GCGGGCACTC 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC 10681 CCGGATCCGC CCGTCCGCCG TGATCCATGC GGTTACCGCC CGCGTGTCGA ACCCAGGTGT | 10501 | GGTTCCAGAT | GTTGCGCAGC | GGCAAAAAGT | GCICCAIGGI | CGGGACGCTC | IGGCCGGTCA |
| 10621 TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC GGACGACCGG GGTTCGAACC | 10561 | CCCCCCCCC | , ατρατταδρα | CTCTAGACCG | i TGCAAAAGGA | GAGUUTGTAA | GUGGGCACIC |
| 10691 CCGCATCCGC CCGTCCGCCG TGATCCATGC GGTTACCGCC CGCGTGTCGA ACCCAGGTGT | 10621 | TTCCGTGGTC | TGGTGGATAA | ATTCGCAAGG | GTATCATGGC | GGACGACCGG | GGIICGAACC |
| 10741 GCGACGTCAG ACAACGGGGG AGCGCTCCTT TTGGCTTCCT TCCAGGCGCG GCGGATGCTG | 10691 | CCCCATCCC | : CCGTCCGCCG | TGATCCATGO | GGTTACCGCC | CGCGTGTCGA | ACCCAGGIGI |
| | 10741 | GCGACGTCAC | ACAACGGGGG | AGCGCTCCTT | TTGGCTTCCT | TCCAGGCGCG | GCGGATGCTG |

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| 10001 | CGCTAGCTTT | TTTCCCCACT | ccccccccc | CCCCTAACCG | GTTAGGCTGG | AAAGCGAAAG |
|--------|-----------------------|-----------------------------|-------------------|---------------|-------------------|------------|
| 10801 | CATTAAGTGG | CTCCCTCCCT | CTACCCCCAC | CCTTATTTTC | CAAGGGTTGA | GTCGCGGGAC |
| 10801 | CCCCGGTTCG | ACTCTCCCCC | CCCCCCCACT | CCCCCGAACG | GGGGTTTGCC | TCCCCGTCAT |
| 10921 | GCAAGACCCC | CCTTCCAAAT | TCCTCCCCAA | | GCCCCTTTTT | TGCTTTTCCC |
| 10981 | AGATGCATCC | CCTCCTCCCC | CACATCCCC | | GCAGCGGCAA | GAGCAAGAGC |
| 11041 | AGCGGCAGAC | ATCCACCCCA | CCCTCCCCTT | CTCCTACCCC | GTCAGGAGGG | GCAACATCCG |
| 11101 | AGCGGCAGAC | ATGCAGGCA | CCTCATTACC | AACCCCCCCC | CCCCCCC | CGGCACTACT |
| 11161 | CGGCTGACGC | COACCCCAC | CCCCTCCCC | CCCTACCACC | CCCTCTCTCT | CAGCGACACC |
| 11221 | TGGACTTGGA | COTOAACCOT | | ACCCCTACCT | CCCCCCCC | AACCTGTTTC |
| 11281 | CAAGGGTGCA | GUIGAAGUGI | GACACGCACA | TOCOCOATOO | AAACTTCCAT | CUVCCCCCCC |
| 11341 | GCGACCGCGA | GGGAGAGGAG | CCCGAGGAGA | TOCTCCCCA | CCACCACTTT | CACCCCCACC |
| 11401 | AGTTGCGGCA | TGGCCTGAAC | CGCGAGCGGT | 1GC 1GCGCGA | CCCCCACCTC | CTAACCCCCT |
| 11461 | CGCGGACCGG | GATTAGTCCC | GCGCGCGCAC | ACG I GGCGGC | CTTTAACAAC | CACCTCCCCA |
| 11521 | ACGAGCAGAC | GGTGAACCAG | GAGATTAACT | TICAAAAAAG | TOTOTOGOAG | TETETAACCC |
| 11581 | CGCTTGTGGC | GCGCGAGGAG | GTGGCTATAG | GACTGATGCA | TCTGTGGGAC | ATACTCCACC |
| 11641 | CGCTGGAGCA | AAACCCAAAT | AGCAAGCCGC | TCATGGCGCA | GCTGTTCCTT | ATAGTGCAGC |
| 11701 | ACAGCAGGGA | CAACGAGGCA | TTCAGGGATG | CGCTGCTAAA | CATAGTAGAG | CCCACCTTCA |
| 11761 | GCTGGCTGCT | CGATTTGATA | AACATTCTGC | AGAGCATAGI | GGTGCAGGAG | CGCAGCTIGA |
| 11821 | GCCTGGCTGA | CAAGGTGGCC | GCCATTAACT | ATTCCATGCT | CAGTCTGGGC | AAGIIIIACG |
| 11881 | CCCGCAAGAT | ATACCATACC | CCTTACGTTC | CCATAGACAA | GGAGGTAAAG | ATCGAGGGGT |
| 11941 | TCTACATGCG | CATGGCGCTG | AAGGTGCTTA | CCTTGAGCGA | CGACCTGGGC | GITTATCGCA |
| 12001 | ACGAGCGCAT | CCACAAGGCC | GTGAGCGTGA | GCCGGCGGCG | CGAGCTCAGC | GACCGCGAGC |
| 12061 | TGATGCACAG | CCTGCAAAGG | GCCCTGGCTG | GCACGGGCAG | CGGCGATAGA | GAGGCCGAGT |
| 12121 | CCTACTTTGA | CGCGGGCGCT | GACCTGCGCT | GGGCCCCAAG | CCGACGCGCC | CTGGAGGCAG |
| 12181 | CTGGGGCCGG | ACCTGGGCTG | GCGGTGGCAC | CCGCGCGCGC | TGGCAACGTC | GGCGGCGTGG |
| 12241 | AGGAATATGA | CGAGGACGAT | GAGTACGAGC | CAGAGGACGG | CGAGTACTAA | GCGGTGATGT |
| 12301 | TTCTGATCAG | ATGATGCAAG | ACGCAACGGA | CCCGGCGGTG | CGGGCGGCGC | TGCAGAGCCA |
| 12361 | GCCGTCCGGC | CTTAACTCCA | CGGACGACTG | GCGCCAGGTC | ATGGACCGCA | TCAIGICGCI |
| 12421 | GACTGCGCGC | AACCCTGACG | CGTTCCGGCA | GCAGCCGCAG | GCCAACCGGC | TCTCCGCAAT |
| 12481 | TCTGGAAGCG | GTGGTCCCGG | CGCGCGCAAA | CCCCACGCAC | GAGAAGGTGC | TGGCGATCGT |
| 12541 | AAACGCGCTG | GCCGAAAACA | GGGCCATCCG | GCCCGATGAG | GCCGGCCTGG | TCTACGACGC |
| 12601 | GCTGCTTCAG | CGCGTGGCTC | GTTACAACAG | CAGCAACGTG | CAGACCAACC | TGGACCGGCT |
| 12661 | GGTGGGGGAT | GTGCGCGAGG | CCGTGGCGCA | GCGTGAGCGC | GCGCAGCAGC | AGGGCAACCI |
| 12721 | GGGCTCCATG | GTTGCACTAA | ACGCCTTCCT | GAGTACACAG | CCCGCCAACG | TGCCGCGGGG |
| 12781 | ACAGGAGGAC | TACACCAACT | TTGTGAGCGC | ACTGCGGCTA | ATGGTGACTG | AGACACCGCA |
| 12841 | AAGTGAGGTG | TATCAGTCCG | GGCCAGACTA | TTTTTCCAG | ACCAGTAGAC | AAGGCCTGCA |
| 12011 | GACCGTAAAC | CTGAGCCAGG | CTTTCAAGAA | CTTGCAGGGG | CTGTGGGGGG | TGCGGGCTCC |
| 12061 | | CGCGCGACCG | TGTCTAGCTT | GCTGACGCCC | AACTCGCGCC | TGTTGCTGCT |
| 12021 | | CCCTTCACGG | ACAGTGGCAG | CGTGTCCCGG | GACACATACC | TAGGTCACTT |
| 12021 | CCTCACACTC | TACCGCGAGG | CCATAGGTCA | GGCGCATGTG | GACGAGCATA | CTTTCCAGGA |
| 121/11 | GATTACAAGT | | CGCTGGGGCA | GGAGGACACG | GGCAGCCTGG | AGGCAACCCT |
| 10001 | CANTACAAGI | CTCACCAACC | GGCGGCAAAA | AATCCCCTCG | TTGCACAGTT | TAAACAGCGA |
| 12261 | . GAACTACCTG | | | GAGCGTGAGC | CTTAACCTGA | TGCGCGACGG |
| 13201 | JUJUHUUHUUU CCCCCC | . ALLITUCUCI . ACCCTCCCC | TGGACATGAC | | ATGGAACCGG | GCATGTATGC |
| 12201 | | CCGTTTATCA | ATCGCCTAAT | GGACTACTTG | CATCGCGCGG | CCGCCGTGAA |
| 12441 | CCCCCACTAT | TTCACCAATC | CCATCTTGAA | CCCGCACTGG | CTACCGCCCC | CTGGTTTCTA |
| 10441 | . CCCCGAGIAI | LICACCAAIU | 30/113114/17 | . 55545/10.40 | | • |

| | | | | | 0707000400 | ACATACACCA |
|--------|---------------------------|---------------|----------------------|------------|--------------|---------------|
| 13501 | CACCGGGGGA | TTCGAGGTGC | CCGAGGGTAA | CGATGGATIC | CTCTGGGACG | ACATAGACGA |
| 13561 | CAGCGTGTTT | TCCCCGCAAC | CGCAGACCCT | GCTAGAGTIG | CAACAACGCG | AGCAGGCAGA |
| 13621 | GGCGGCGCTG | CGAAAGGAAA | GCTTCCGCAG | GCCAAGCAGC | TTGTCCGATC | I AGGCGC I GC |
| 13681 | GGCCCCGCGG | TCAGATGCTA | GTAGCCCATT | TCCAAGCTIG | ATAGGGTUTU | TACCAGCAC |
| 13741 | TCGCACCACC | CGCCCGCGCCC | TGCTGGGCGA | GGAGGAGTAC | CTAAACAACT | CGCTGCTGCA |
| 13801 | GCCGCAGCGC | GAAAAGAACC | TGCCTCCGGC | GTTTCCCAAC | AACGGGATAG | AGAGCCTAGT |
| 13861 | GGACAAGATG | AGTAGATGGA | AGACGTATGC | GCAGGAGCAC | AGGGATGTGC | CCGGCCCGCG |
| 13001 | | CGTCGTCAAA | GGCACGACCG | TCAGCGGGGT | CTGGTGTGGG | AGGACGATGA |
| 13001 | CTCGCCAGAC | GACAGCAGCG | TCTTGGATTT | GGGAGGGAGT | GGCAACCCGT | TTGCACACCT |
| 1/1/1 | TECETECAGE | CTGGGGAGAA | TGTTTTAAAA | AAAGCATGAT | GCAAAATAAA | AAACTCACCA |
| 1/101 | ACCCC ATCCC | ACCGAGCGTT | GGTTTTCTTG | TATTCCCCTT | AGTATGCGGC | GCGCGGCGAT |
| 14101 | CTATCACCAA | CCTCCTCCTC | CCTCCTACGA | GAGCGTGGTG | AGCGCGGCGC | CAGTGGCGGC |
| 14101 | CCCCCTCCCT | TCACCCTTCG | ATECTCCCCT | GCACCCGCCG | TTCGTGCCTC | CGCGGTACCT |
| 14221 | CCCCCTACC | CCCCCCACAA | ACAGCATCCG | TTACTCTGAG | TTGGCACCCC | TATTCGACAC |
| 14281 | CACCCCTCTC | TACCTTCTCC | ACAACAACTC | AACCCATCTC | GCATCCCTGA | ACTACCAGAA |
| 14341 | CALLUGIGIG | AACTTTCTAA | CCACCCTCAT | TCAAAACAAT | GACTACAGCC | CGGGGGAGGC |
| 14401 | CGACCACAGC | AACITICIAA | TTCACCACCC | CTCCCACTCC | GGCGGCGACC | TGAAAACCAT |
| 14461 | AAGCACACAG | ACCATCACIC | ATCTCAACCA | CTTCATCTTT | ACCAATAACT | TTAAGGCGCG |
| 14521 | CCTGCATACC | AACATGUCAA | ATGIGAACGA | CAAACACCTC | ACCAATAAGT | ACCACTCCCT |
| 14581 | GGIGAIGGIG | 1 CGCGC 1 CGC | 1 I AC I AAGGA | CAAACAGGIG | GAGCTGAAAT | TTATCAACAA |
| 14641 | GGAGTTCACG | CIGCCCGAGG | GCAACTACTC | CACCCACAC | ACCATAGACC | AAACCCACAT |
| 14701 | CGCGATCGTG | GAGCACTACT | I GAAAG I GGG | CAGGCAGAAC | GGGGTTCTGG | CTCCTCTTCT |
| 14761 | CGGGGTAAAG | TTTGACACCC | GCAACTICAG | ACTGGGGTTT | GACCCAGTCA | TOCCACCATO |
| 14821 | CATGCCTGGG | GTATATACAA | ACGAAGCCTT | CCATCCAGAC | ATCATTTTGC | ACCOCAACC |
| 14881 | CGGGGTGGAC | TTCACCCACA | GCCGCCTGAG | CAACTIGIIG | GGCATCCGCA | AGCGGCAACC |
| 14941 | CTTCCAGGAG | GGCTTTAGGA | TCACCTACGA | TGACCTGGAG | GGTGGTAACA | TICCCGCACT |
| 15001 | GTTGGATGTG | GACGCCTACC | AGGCAAGCTT | GAAAGATGAC | ACCGAACAGG | GCGGGGGTGG |
| 15061 | CGCAGGCGGC | GGCAACAACA | GTGGCAGCGG | CGCGGAAGAG | AACTCCAACG | CGGCAGCTGC |
| 15121 | GGCAATGCAG | CCGGTGGAGG | ACATGAACGA | TCATGCCATT | CGCGGCGACA | CCTTTGCCAC |
| 15181 | ACGGGCGGAG | GAGAAGCGCG | CTGAGGCCGA | GGCAGCGGCC | GAAGCTGCCG | CCCCCGCTGC |
| 15241 | GGAGGCTGCA | CAACCCGAGG | TCGAGAAGCC | TCAGAAGAAA | CCGGTGATTA | AACCCCTGAC |
| 15301 | AGAGGACAGC | AAGAAACGCA | GTTACAACCT | AATAAGCAAT | GACAGCACCT | TCACCCAGIA |
| 15361 | CCGCAGCTGG | TACCTTGCAT | ACAACTACGG | CGACCCTCAG | GCCGGGATCC | GCTCATGGAC |
| 15421 | CCTGCTTTGC | ACTCCTGACG | TAACCTGCGG | CTCGGAGCAG | GTATACTGGT | CGTTGCCCGA |
| 15481 | CATGATGCAA | GACCCCGTGA | CCTTCCGCTC | CACGCGCCAG | ATCAGCAACT | TICCGGIGGI |
| 15541 | GGGCGCCGAG | CTGTTGCCCG | TGCACTCCAA | GAGCTTCTAC | AACGACCAGG | CCGTCTACIC |
| 15601 | CCAGCTCATC | CGCCAGTTTA | CCTCTCTGAC | CCACGTGTTC | AATCGCTTTC | CCGAGAACCA |
| 15661 | GATTTTGGCG | CGCCCGCCAG | CCCCCACCAT | CACCACCGIC | AG I GAAAACG | 1166166161 |
| 15721 | CACAGATCAC | GGGACGCTAC | CGCTGCGCAA | CAGCATCGGA | GGAGTCCAGC | GAGTGACCAT |
| 15781 | TACTGACGCC | AGACGCCGCA | CCTGCCCCTA | CGTTTACAAG | GCCCTGGGCA | TAGTCTCGCC |
| 159/11 | GCGCGTCCTA | TCGAGCCGCA | CTTTTTGAGC | AAGCATGTCC | ATCCTTATAT | CGCCCAGCAA |
| 15001 | | TGGGGCCTGC | GCTTCCCAAG | CAAGATGTTT | GGCGGGGCCA | AGAAGCGCTC |
| 15061 | CCACCAGGC | CCAGTGCGCG | TGCGCGGGCA | CTACCGCGCG | CCCTGGGGCG | CGCACAAACG |
| 16001 | . CGACCAACAC T∩∆∩Ω∩ΩΩΩ | | CCGTCGATGA | CGCCATCGAC | GCGGTGGTGG | AGGAGGCGCG |
| 16001 | . CAGCCGCACT | . CCCACGCCCC | CGCCAGTGTC | CACCGTGGAC | GCGGCCATTC | AGACCGTGGT |
| 16141 | | | CTAAAATGAA | GAGACGGCGG | AGGCGCGTAG | CACGTCGCCA |
| エハエチア | , acacaanace | Judgud Indu | - 11 0 0 0 t1 C0 0 t | | | |

| 16201 | CCGCCGCCGA | CCCGGCACTG | CCGCCCAACG | CGCGGCGGCG | GCCCTGCTTA | ACCGCGCACG |
|-------|------------|-------------|------------|------------|------------|------------|
| 16261 | TCGCACCGGC | CGACGGGCGG | CCATGCGAGC | CGCTCGAAGG | CTGGCCGCGG | GTATTGTCAC |
| 16321 | TGTGCCCCCC | AGGTCCAGGC | GACGAGCGGC | CGCCGCAGCA | GCCGCGGCCA | TTAGTGCTAT |
| 16381 | GACTCAGGGT | CGCAGGGGCA | ACGTGTACTG | GGTGCGCGAC | TCGGTTAGCG | GCCTGCGCGT |
| 16441 | GCCCGTGCGC | ACCCGCCCCC | CGCGCAACTA | GATTGCAATA | AAAAACTACT | TAGACTCGTA |
| 16501 | CTGTTGTATG | TATCCAGCGG | CGGCGGCGCG | CATCGAAGCT | ATGTCCAAGC | GCAAAATCAA |
| 16561 | AGAAGAGATG | CTCCAGGTCA | TCGCGCCGGA | GATCTATGGC | CCCCGAAGA | AGGAAGAGCA |
| 16621 | GGATTACAAG | CCCCGAAAGC | TAAAGCGGGT | CAAAAAGAAA | AAGAAAGATG | ATGATGATGA |
| | TGAACTTGAC | | | | | |
| 16741 | GAAAGGTCGA | CGCGTAAGAC | GTGTTTTGCG | ACCCGGCACC | ACCGTAGTCT | TTACGCCCGG |
| 16801 | TGAGCGCTCC | ACCCGCACCT | ACAAGCGCGT | GTATGATGAG | GTGTACGGCG | ACGAGGACCT |
| | GCTTGAGCAG | | | | | |
| 16001 | GCTGGCGTTG | CCCCTGGACG | AGGGCAACCC | AACACCTAGC | CTAAAGCCCG | TGACACTGCA |
| 16001 | GCAGGTGCTG | CCCCCCCTTG | | AGAAAAGCGC | GGCCTAAAGC | GCGAGTCTGG |
| | TGACTTGGCA | | | | | |
| | GGAAAAHATG | | | | | |
| | GGTGGCACCG | | | | | |
| | TAGTATTGCC | | | | | |
| 1/221 | GGCAGATGCC | CCCCTCCACC | CCCCCCCTCC | CCCCCCCTCC | AACACCTCTA | CCCCCCCCCC |
| 17241 | AACGGACCCG | TOCATOTATO | CTCTTTCACC | CCCCCCCCC | CCCCCCCCTT | CAACCAACTA |
| 1/341 | AACGGACCCG | ACCCCCTAC | TOCCOCAATA | TCCCCTACAT | CCTTCCATCC | CCCCTACCCC |
| | CGGCGCCGCC | | | | | |
| | CGGCTATCGT | | | | | |
| | CACTGGAACC | | | | | |
| | CAGGGTGGCT | | | | | |
| 1/641 | CATCGTTTAA | AAGCCGGTCT | | CCACCCTACC | ACCCCCATCC | CCCCCACCC |
| | TTTCCCGGTG | | | | | |
| | CCTGACGGGC | | | | | |
| | GCGCGGCGGT | | | | | |
| | CGGAATTGCA | | | | | |
| | GAAAAATCAA | | | | | |
| | AATGGAAGAC | | | | | |
| | AAACTGGCAA | | | | | |
| 18121 | GTGGAGCGGC | ATTAAAAAATT | TCGGTTCCGC | CGTTAAGAAC | TATGGCAGCA | AAGCCTGGAA |
| | CAGCAGCACA | | | | | |
| 18241 | GGTAGATGGC | CTGGCCTCTG | GCATTAGCGG | GGTGGTGGAC | CTGGCCAACC | AGGCAGTGCA |
| 18301 | AAATAAGATT | AACAGTAAGC | TTGATCCCCG | CCCTCCCGTA | GAGGAGCCTC | CACCGGCCGI |
| | GGAGACAGTG | | | | | |
| | TCTGGTGACG | | | | | |
| 18481 | CACCACCCGT | CCCATCGCGC | CCATGGCTAC | CGGAGTGCTG | GGCCAGCACA | CACCCGTAAC |
| 18541 | GCTGGACCTG | CCTCCCCCCG | CCGACACCCA | GCAGAAACCT | GTGCTGCCAG | GCCCGTCCGC |
| 18601 | CGTTGTTGTA | ACCCGTCCTA | GCCGCGCGTC | CCTGCGCCGC | GCCGCCAGCG | GTCCGCGATC |
| 18661 | GTTGCGGCCC | GTAGCCAGTG | GCAACTGGCA | AAGCACACTG | AACAGCATCG | TGGGTTTGGG |
| 18721 | GGTGCAATCC | CTGAAGCGCC | GACGATGCTT | CTGATAGCTA | ACGTGTCGTA | TGTGTGTCAT |
| 18781 | GTATGCGTCC | ATGTCGCCGC | CAGAGGAGCT | GCTGAGCCGC | CGCGCGCCCG | CTTTCCAAGA |
| 18841 | TGGCTACCCC | TTCGATGATG | CCGCAGTGGT | CTTACATGCA | CATCTCGGGC | CAGGACGCCT |

| | | 0.00000000 | OTOOTOO A OT | TOOCCCCCC | CACCCACACC | TACTTCACCC |
|-------|------------|------------|--------------|------------|------------|-------------|
| 18901 | CGGAGTACCT | GAGCCCCGGG | CIGGIGCAGI | | CACCGAGACG | ACACACCCCT |
| 18961 | IGAATAACAA | GITTAGAAAC | CCCACGGIGG | TOCACCOCCA | CGACGTGACC | TACTCCTACA |
| 19021 | CICAGCGIII | GACGUIGUGG | TICATCCCG | 1GGACCGCGA | GGATACTGCG | TOCACOTACE |
| 19081 | AGGCGCGGTT | CACCCTAGCT | GIGGGIGAIA | ACCGIGIGCI | AGACATGGCT | COCACTOCCT |
| 19141 | TTGACATCCG | CGGCGTGCTG | GACAGGGGCC | CIACILITAA | GCCCTACTCT | AATCA AACTC |
| | | | | | GTGGGAACAA | |
| 19261 | CACAAGTGGA | TGCTCAAGAA | CTTGACGAAG | AGGAGAATGA | AGCCAATGAA | GCTCAGGCGC |
| 19321 | GAGAACAGGA | ACAAGCTAAG | AAAACCCATG | TATATGCCCA | GGCTCCACTG | TCCGGAATAA |
| 19381 | AAATAACTAA | AGAAGGTCTA | CAAATAGGAA | CTGCCGACGC | CACAGTAGCA | GGTGCCGGCA |
| 19441 | AAGAAATTTT | CGCAGACAAA | ACTTTTCAAC | CTGAACCACA | AGTAGGAGAA | ICICAAIGGA |
| 19501 | ACGAAGCGGA | TGCCACAGCA | GCTGGTGGAA | GGGTTCTTAA | AAAGACAACT | CCCATGAAAC |
| 19561 | CCTGCTATGG | CTCATACGCT | AGACCCACCA | ATTCCAACGG | CGGACAGGGC | GHAIGGHG |
| 19621 | AACAAAATGG | TAAATTGGAA | AGTCAAGTCG | AAATGCAATT | TTTTCCACA | ICCACAAAIG |
| | | | | | GTACAGCGAA | |
| 19741 | TGGAAACTCC | AGATACTCAT | CTTTCTTATA | AACCTAAAAT | GGGGGATAAA | AATGCCAAAG |
| 19801 | TCATGCTTGG | ACAACAAGCA | ATGCCAAACA | GACCAAATTA | CATTGCTTTT | AGAGACAATI |
| | | | | | TGTCCTTGCT | |
| | | | | | AGAGCTGTCC | |
| 19981 | TGCTTGATTC | AATTGGCGAC | AGAACAAGAT | ACTITICAAT | GTGGAATCAA | GCTGTTGACA |
| 20041 | GCTATGATCC | AGATGTCAGA | ATTATTGAGA | ACCATGGAAC | TGAGGATGAG | IIGCCAAAII |
| 20101 | ATTGCTTTCC | TCTTGGTGGA | ATTGGGATTA | CTGACACTIT | TCAAGCTGTT | AAAACAACIG |
| | | | | | TTCAACATTT | |
| | | | | | CCTGAATGCC | |
| | | | | | CAAGCTAAAA | |
| | | | | | CATGAACAAG | |
| | | | | | CTGGTCTCTG | |
| | | | | | GCGTTACCGC | |
| | | | | | CCAAAAGTTT | |
| | | | | | GAACTTCAGG | |
| 20641 | ACATGGTTCT | GCAGAGCTCT | CTGGGAAACG | ACCTTAGAGT | TGACGGGGCT | AGCATTAAGT |
| | | | | | CCACAACACG | |
| | | | | | TAATGACTAC | |
| | | | | | GCCCATCTCC | |
| 20881 | GCAACTGGGC | AGCATTTCGC | GGTTGGGCCT | TCACACGCTT | GAAGACAAAG | GAAACCCCTT |
| 20941 | CCCTGGGATC | AGGCTACGAC | CCTTACTACA | CCTACTCTGG | CTCCATACCA | TACCITGACG |
| 21001 | GAACCTTCTA | TCTTAATCAC | ACCTTTAAGA | AGGTGGCCAT | TACTTTTGAC | ICITCIGITA |
| 21061 | GCTGGCCGGG | CAACGACCGC | CTGCTTACTC | CCAATGAGTT | TGAGATTAAG | CGCTCAGTTG |
| 21121 | ACGGGGAGGG | CTATAACGTA | GCTCAGTGCA | ACATGACAAA | GGACTGGTTC | CTAGTGCAGA |
| 21181 | TGTTGGCCAA | CTACAATATT | GGCTACCAGG | GCTTCTACAT | TCCAGAAAGC | TACAAAGACC |
| 21241 | GCATGTACTC | GTTCTTCAGA | AACTTCCAGC | CCATGAGCCG | GCAAGTGGTG | GACGATACTA |
| 21301 | AATACAAAGA | TTATCAGCAG | GTTGGAATTA | TCCACCAGCA | TAACAACTCA | GGCTTCGTAG |
| 21361 | GCTACCTCGC | TCCCACCATG | CGCGAGGGAC | AAGCTTACCC | CGCTAATGTT | CACCCCACCC |
| 21421 | TAATAGGCAA | AACCGCGGTT | GATAGTATTA | CCCAGAAAAA | GTTTCTTTGC | CACCTCCCC |
| 21481 | TGTGGCGCAT | CCCCTTCTCC | AGTAACTTTA | IGICCAIGGG | TGCGCTCACA | CTCCATCCCA |
| 21541 | AAAACCTTCT | CTACGCAAAC | TUUGUUUAUG | CGCTAGACAT | GACCIIIGAG | GTGGATCCCA |

| | | 0.4.000TTOTT | TATOTTTOT | TTCAACTCTT | TOACCTCCTC | CCTCTCCACC |
|---------------|--------------------|--------------|------------|-------------|------------|-------------|
| 21601 | IGGACGAGCC | CACCCTTCTT | CACACCCTCT | ACCTCCCCAC | CCCCTTCTCC | CCTCTCCAACC |
| 21661 | AGCCGCACCG | CGGCGTCATC | CAACATCAAC | ACCICCECAC | CCCATCCCCT | |
| 21721 | CCACAACATA | AAGAAGCAAG | CAACATCAAC | TTCTCCCCC A | TATTTTCC | CCACCTATGA |
| 21781 | GGAACTGAAA | GCCATTGTCA | AAGATCTIGG | 1161666CCA | TOCCCOATAC | TTAACACCCC |
| 21841 | CAAGCGCTTC | CCAGGCTTTG | TTTCCCCACA | CAAGCTCGCC | TOCALACCOC | CCTCAAAAAC |
| 21901 | CGGTCGCGAG | ACTGGGGGCG | TACACTGGAT | GGCCTTTGCC | TGGAACCCGC | GCTCAAAAAC |
| 21961 | ATGCTACCTC | TTTGAGCCCT | TTGGCTTTTC | TGACCAACGT | CTCAAGCAGG | HIACCAGII |
| 22021 | TGAGTACGAG | TCACTCCTGC | GCCGTAGCGC | CATTGCCTCT | TCCCCCGACC | GCIGIAIAAC |
| 22081 | GCTGGAAAAG | TCCACCCAAA | GCGTGCAGGG | GCCCAACTCG | GCCGCCTGTG | GCCTATICIG |
| 22141 | CTGCATGTTT | CTCCACGCCT | TTGCCAACTG | GCCCCAAACT | CCCATGGATC | ACAACCCCAC |
| 22201 | CATGAACCTT | ATTACCGGGG | TACCCAACTC | CATGCTTAAC | AGTCCCCAGG | TACAGCCCAC |
| 22261 | CCTGCGCCGC | AACCAGGAAC | AGCTCTACAG | CTTCCTGGAG | CGCCACTCGC | CCTACTICCG |
| 22321 | CAGCCACAGT | GCGCAAATTA | GGAGCGCCAC | TTCTTTTIGT | CACTTGAAAA | ACAIGIAAAA |
| 22381 | ATAATGTACT | AGGAGACACT | TTCAATAAAG | GCAAATGTTT | HAIHGIAC | ACICICEGEI |
| 22441 | GATTATTTAC | CCCCACCCTT | GCCGTCTGCG | CCGTTTAAAA | ATCAAAGGGG | TICIGCCGCG |
| 22501 | CATCGCTATG | CGCCACTGGC | AGGGACACGT | TGCGATACTG | GTGTTTAGTG | CICCACITAA |
| 22561 | ACTCAGGCAC | AACCATCCGC | GGCAGCTCGG | TGAAGTTTTC | ACTCCACAGG | CTGCGCACCA |
| 22621 | TCACCAACGC | GTTTAGCAGG | TCGGGCGCCG | ATATCTTGAA | GTCGCAGTTG | GGGCCTCCGC |
| 22681 | CCTGCGCGCG | CGAGTTGCGA | TACACAGGGT | TACAGCACTG | GAACACTATC | AGCGCCGGGT |
| 22741 | GGTGCACGCT | GGCCAGCACG | CTCTTGTCGG | AGATCAGATC | CGCGTCCAGG | TCCTCCGCGT |
| 22801 | TGCTCAGGGC | GAACGGAGTC | AACTTTGGTA | GCTGCCTTCC | CAAAAAGGGT | GCATGCCCAG |
| 22861 | GCTTTGAGTT | GCACTCGCAC | CGTAGTGGCA | TCAGAAGGTG | ACCGTGCCCA | GTCTGGGCG1 |
| 22921 | TAGGATACAG | CGCCTGCATG | AAAGCCTTGA | TCTGCTTAAA | AGCCACCTGA | GCCTTTGCGC |
| 22981 | CTTCAGAGAA | GAACATGCCG | CAAGACTTGC | CGGAAAACTG | ATTGGCCGGA | CAGGCCGCGT |
| 23041 | CATGCACGCA | GCACCTTGCG | TCGGTGTTGG | AGATCTGCAC | CACATITCGG | CCCCACCGGT |
| 23101 | TCTTCACGAT | CTTGGCCTTG | CTAGACTGCT | CCTTCAGCGC | GCGCTGCCCG | TTTTCGCTCG |
| 23161 | TCACATCCAT | TTCAATCACG | TGCTCCTTAT | TTATCATAAT | GCTCCCGTGT | AGACACTTAA |
| 23221 | GCTCGCCTTC | GATCTCAGCG | CAGCGGTGCA | GCCACAACGC | GCAGCCCGTG | GGCTCGTGGT |
| 23281 | GCTTGTAGGT | TACCTCTGCA | AACGACTGCA | GGTACGCCTG | CAGGAATCGC | CCCATCATCG |
| 23341 | TCACAAAGGT | CTTGTTGCTG | GTGAAGGTCA | GCTGCAACCC | GCGGTGCTCC | TCGTTTAGCC |
| 23401 | AGGTCTTGCA | TACGGCCGCC | AGAGCTTCCA | CTTGGTCAGG | CAGTAGCTTG | AAGTTTGCCT |
| 23461 | TTAGATCGTT | ATCCACGTGG | TACTTGTCCA | TCAACGCGCG | CGCAGCCTCC | ATGCCCTTCT |
| 23521 | CCCACGCAGA | CACGATCGGC | AGGCTCAGCG | GGTTTATCAC | CGTGCTTTCA | CTTTCCGCTT |
| 23581 | CACTGGACTC | TTCCTTTTCC | TCTTGCATCC | GCATACCCCG | CGCCACTGGG | TCGTCTTCAT |
| 23641 | TCAGCCGCCG | CACCGTGCGC | TTACCTCCCT | TGCCGTGCTT | GATTAGCACC | GGIGGGIIGC |
| 23701 | TGAAACCCAC | CATTTGTAGC | GCCACATCTT | CTCTTTCTTC | CTCGCTGTCC | ACGATCACCT |
| 23761 | CTGGGGATGG | CGGGCGCTCG | GGCTTGGGAG | AGGGGCGCTT | CTTTTTCTTT | LIGGACGCAA |
| | TGGCCAAATC | CGCCGTCGAG | GTCGATGGCC | GCGGGCTGGG | TGTGCGCGGC | ACCAGCGCAT |
| 77821 | CTTGTGACGA | GTCTTCTTCG | TCCTCGGACT | CGAGACGCCG | CCTCAGCCGC | |
| 23041 | ≘ CGCGCGGGG | AGGCGGCGGC | GACGGCGACG | GGGACGAGAC | GTCCTCCATG | GTTGGTGGAC |
| 24001 | GTCGCGCCGC | ACCGCGTCCG | CGCTCGGGGG | TGGTTTCGCG | CTGCTCCTCT | TCCCGACTGG |
| 7 <u>2061</u> | CCATTTCCTT | CTCCTATAGG | CAGAAAAAGA | TCATGGAGTC | AGTCGAGAAG | GAGGACAGCC |
| 75171 | TAACCGCCCC | CTTTGAGTTC | GCCACCACCG | CCTCCACCGA | TGCCGCCAAC | GCGCCTACCA |
| 24181 | CCTTCCCCGT | CGAGGCACCC | CCGCTTGAGG | aggaggaagt | GATTATCGAG | CAGGACCCAG |
| 24241 | GTTTTGTAAG | i cgaagacgac | GAAGATCGCT | CAGTACCAAC | AGAGGATAAA | AAGCAAGACC |

| 24301 | AGGACGACGC | AGAGGCAAAC | GAGGAACAAG | TCGGGCGGGG | GGACCAAAGG | CATGGCGACT |
|---------|--------------|-------------|------------|-------------------|------------|--------------|
| 24361 | ACCTAGATGT | GGGAGACGAC | GTGCTGTTGA | AGCATCTGCA | GCGCCAGTGC | GCCATTATCT |
| 24421 | GCGACGCGTT | GCAAGAGCGC | AGCGATGTGC | CCCTCGCCAT | AGCGGATGTC | AGCCTTGCCT |
| 24481 | ACGAACGCCA | CCTGTTCTCA | CCGCGCGTAC | CCCCCAAACG | CCAAGAAAAC | GGCACATGCG |
| 2/15/11 | AGCCCAACCC | GCGCCTCAAC | TTCTACCCCG | TATTTGCCGT | GCCAGAGGTG | CTTGCCACCT |
| 2/601 | ATCACATCTT | ΤΤΤΓΓΔΔΔΔΓ | TGCAAGATAC | CCCTATCCTG | CCGTGCCAAC | CGCAGCCGAG |
| 24661 | CCCVCVICII | CCTCCCCTTC | CGGCAGGGCG | CTGTCATACC | TGATATCGCC | TCGCTCGACG |
| 24701 | AACTCCCAAA | AATCTTTCAG | GGTCTTGGAC | GCGACGAGAA | GCGCGCGGCA | AACGCTCTGC |
| 24721 | AACAACAAA | CACCCAAAAT | CANACTCACT | GTGGAGTGCT | GGTGGAACTT | GAGGGTGACA |
| 24/01 | AACAAGAAAA | ACCCCTCCTC | AAACCCACCA | TCCACCTCAC | CCACTTTGCC | TACCCGGCAC |
| 24041 | TTAACCTACC | CCCCAACCTT | ATCACCACAC | TCATCACCCA | GCTGATCGTG | CGCCGTGCAC |
| 24901 | CACCCCTCCA | CACCCATCCA | AACTTCCAAC | AACAAACCGA | GGAGGGCCTA | CCCGCAGTTG |
| 24961 | GACCCCIGGA | COTCCCCCC | TOCOTTO | CCCCCCACCC | TECCEACTTE | CACCACACTTA |
| 25021 | GCGATGAGCA | GC TGGCGCGC | OTCOTTOTTA | CCCTCCACCT | TGCCGACTTG | CACCCCTTCT |
| 25081 | GCAAGCTAAT | GATGGCCGCA | GIGUIIGIIA | ACCAAACCTT | TGAGTGCATG | TTTCCCCACC |
| 25141 | TTGCTGACCC | GGAGATGCAG | CGCAAGCTAG | AGGAAACGTT | GCACTACACC | CTCTCCTACC |
| 25201 | GCTACGTGCG | CCAGGCCTGC | AAAATTICCA | ACGIGGAGCI | CTGCAACCTG | CTCAACCCCC |
| 25261 | TTGGAATTTT | GCACGAAAAC | CGCCTTGGGC | AAAACGIGCI | TCATTCCACG | LICAAGGGGG |
| 25321 | AGGCGCGCCG | CGACTACGTC | CGCGACTGCG | HIACHAH | TCTGTGCTAC | ACC I GGCAAA |
| 25381 | CGGCCATGGG | CGTGTGGCAG | CAGTGCCTGG | AGGAGCGCAA | CCTGAAGGAG | CTGCAGAAGC |
| 25441 | TGCTAAAGCA | AAACTTGAAG | GACCTATGGA | CGGCCTTCAA | CGAGCGCTCC | GIGGCCGCGC |
| 25501 | ACCTGGCGGA | CATTATCTTC | CCCGAACGCC | TGCTTAAAAC | CCTGCAACAG | GGTCTGCCAG |
| 25561 | ACTTCACCAG | TCAAAGCATG | TTGCAAAACT | TTAGGAACTT | TATCCTAGAG | CGTTCAGGAA |
| 25621 | TTCTGCCCGC | CACCTGCTGT | GCGCTTCCTA | GCGACTTTGT | GCCCATTAAG | TACCGTGAAT |
| 25681 | GCCCTCCGCC | GCTTTGGGGT | CACTGCTACC | TTCTGCAGCT | AGCCAACTAC | CTTGCCTACC |
| 25741 | ACTCCGACAT | CATGGAAGAC | GTGAGCGGTG | ACGGCCTACT | GGAGTGTCAC | TGTCGCTGCA |
| 25801 | ACCTATGCAC | CCCGCACCGC | TCCCTGGTCT | GCAATTCACA | ACTGCTTAGC | GAAAGTCAAA |
| 25861 | TTATCGGTAC | CTTTGAGCTG | CAGGGTCCCT | CGCCTGACGA | AAAGTCCGCG | GCTCCGGGGT |
| 25921 | TGAAACTCAC | TCCGGGGCTG | TGGACGTCGG | CTTACCTTCG | CAAATTTGTA | CCTGAGGACT |
| | ACCACGCCCA | CGAGATTAGG | TTCTACGAAG | ACCAATCCCG | CCCGCCAAAT | GCGGAGCTTA |
| 26041 | CCGCCTGCGT | CATTACCCAG | GGCCACATCC | TTGGCCAATT | GCAAGCCATT | AACAAAGCCC |
| 26101 | GCCAAGAGTT | TCTGCTACGA | AAGGGACGGG | GGGTTTACTT | GGACCCCCAG | TCCGGCGAGG |
| 26161 | AGCTCAACCC | AATCCCCCCG | CCGCCGCAGC | CCTATCAGCA | GCCGCGGGCC | CTTGCTTCCC |
| 26221 | AGGATGGCAC | CCAAAAGAA | GCTGCAGCTG | CCGCCGCCGC | CACCCACGGA | CGAGGAGGAA |
| 26221 | TACTEGEACA | GTCAGGCAGA | GGAGGTTTTG | GACGAGGAGG | AGGAGATGAT | GGAAGACTGG |
| 262/1 | CACACCCTAC | ACGAGGAAGC | TTCCGAGGCC | GAAGAGGTGT | CAGACGAAAC | ACCGTCACCC |
| 26401 | TCCCTCCCAT | TCCCCTCCCC | GCCCCCCAG | AAATCGGCAA | CCGTTCCCAG | CATTGCTACA |
| 20401 | ACCTCCCCTC | CTCACCCCCC | CCCCCACTG | CCCGTTCGCC | GACCCAACCG | TAGATGGGAC |
| 20401 | ACCACTCCAA | CLCAGGGGGGG | TAACTCTAAC | CACCUCCUCC | CGTTAGCCCA | AGAGCAACAA |
| 20021 | CACCCCCAAC | CCTACCCCTC | CTCCCCCCTC | | CCATAGTTGC | TTGCTTGCAA |
| 20581 | CAGUGUCAAG | CCAACATCTC | CTTCCCCCC | CACAAGAACG | TCTACCATCA | CECCETEECC |
| 26641 | GAC 16 16666 | GCAACA ICIC | TTACTACCCT | CATCTCTACA | CCCCCTACTG | CACCECCEC |
| 26/01 | ACCOUNT | ACATCL IGCA | CCACCCACAA | CCAAACCCCA | GCCCCTACTG | ACACTCTCAC |
| 26/61 | AGUGGUAGCA | ALAGUAGUGG | CCCCCCACC | | CCGGATAGCA | CTCTCCCCC |
| 26821 | AAAGCCCAAG | AAATUUAUAG | JEHJEEJEEJ | ADDADDADDA | GGAGCACTGC | TCTATCCTAT |
| 26881 | CAACGAACCC | GTATUGAUCU | AACAACAACA | HAMUNUMAII | AAAAAAAAAC | TGTATGCTAT |
| 26941 | ATTICAACAG | AGCAGGGGCC | AAGAACAAGA | GC I GAAAAA I A | AAAAACAGGT | CICIGCGCIC |

| 07001 | CCTCACCCCC | ACCTCCCTGT | ΑΤΟΛΟΛΑΛΑΘ | CGAAGATCAG | CTTCGGCGCA | CGCTGGAAGA |
|--------|-------------------------------|----------------------------|---------------------|-------------|------------|------------|
| 2/001 | CCCCCACCCT | CTCTTCACCA | A A T A C T C C C C | CCTCACTCTT | AAGGACTAGT | TTCGCGCCCT |
| 2/061 | CGCGGAGGCT - | TAACCCCCAA | AACTACCTCA | TCTCCAGCGG | CCACACCCGG | CGCCAGCACC |
| 2/121 | TOTOGTOACC | CCCATTATCA | CC A ACCA A AT | TCCCACGCCC | TACATGTGGA | GTTACCAGCC |
| 2/181 | TGTCGTCAGC | CTTCCCCCTC | CACCTCCCCA | ACACTACTCA | ACCCGAATAA | ACTACATGAG |
| 2/241 | ACAAATGGGA | CITCLGGCIG | CCCCCCCCCA | CCCAATCCCC | CCCCACCCAA | ACCGAATTCT |
| 27301 | CGCGGGACCC | CACATGATAT | CCACCACACC | TCCTAATAAC | GCCCACCGAA | CTACTTCCCC |
| 27361 | CCTCGAACAG | GUGGUTATTA | AAACTCCCCC | TOCCACCACT | CTCGTACTTC | CCVCVCVCCC |
| 27421 | CGCTGCCCTG | GIGIACCAGG | AAAG I CCCGC | CCCCACCAC | GTGGTACTTC | TTCCTCACAG |
| 27481 | CCAGGCCGAA | GTTCAGATGA | CTAACTCAGG | CCTCAAAATC | GCGGGCGGCT | CTATTCACCT |
| 27541 | GGTGCGGTCG | CCCGGGCAGG | GIATAACICA | TOTOCOTOCO | AGAGGGCGAG | TTCACATCGG |
| 27601 | CAACGACGAG | TCGGTGAGCI | CCTCTCTTGG | TOTOGRATO | GACGGGACAT | ACACCTCCTC |
| 27661 | CGGCGCTGGC | CGCTCTTCAT | TTACGCCCCG | TCAGGCGATC | CTAACTCTGC | TOTTOTTO |
| 27721 | CTCGGAGCCG | CGCTCCGGAG | GCATTGGAAC | TCTACAATTI | ATTGAGGAGT | TTATTCCCAA |
| 27781 | GGTTTACTTC | AACCCCTTTT | CTGGACCTCC | CGGCCACTAC | CCGGACCAGT | CACACCCACA |
| 27841 | CTTTGACGCG | GTAAAAGACT | CGGCGGACGG | CTACGACTGA | ATGACCAGTG | GAGAGGCAGA |
| 27901 | GCAACTGCGC | CTGACACACC | TCGACCACTG | CCGCCGCCAC | AAGTGCTTTG | |
| 27961 | CGGTGAGTTT | TGTTACTTTG | AATTGCCCGA | AGAGCATATC | GAGGGCCCGG | CGCACGGCGT |
| 28021 | CCGGCTCACC | ACCCAGGTAG | AGCTTACACG | TAGCCTGATT | CGGGAGTTTA | CCAAGCGCCC |
| 28081 | CCTGCTAGTG | GAGCGGGAGC | GGGGTCCCTG | TGTTCTGACC | GIGGIIIGCA | ACIGICCIAA |
| 28141 | CCCTGGATTA | CATCAAGATC | TTTGTTGTCA | TCTCTGTGCT | GAGTATAATA | AATACAGAAA |
| 28201 | TTAGAATCTA | CTGGGGCTCC | TGTCGCCATC | CTGTGAACGC | CACCGTTTTT | ACCCACCCAA |
| 28261 | AGCAGACCAA | AGCAAACCTC | ACCTCCGGTT | TGCACAAGCG | GGCCAATAAG | TACCTTACCT |
| 28321 | GGTACTTTAA | CGGCTCTTCA | TTTGTAATTT | ACAACAGTTT | CCAGCGAGAC | GAAGTAAGTT |
| 28381 | TGCCACACAA | CCTTCTCGGC | TTCAACTACA | CCGTCAAGAA | AAACACCACC | ACCACCCTCC |
| 28441 | TCACCTGCCG | GGAACGTACG | AGTGCGTCAC | CGGTTGCTGC | GCCCACACCT | ACAGCCTGAG |
| 28501 | CGTAACCAGA | CATTACTCCC | ATTTTCCCAA | AACAGGAGGT | GAGCTCAACT | CCCGGAACTC |
| 28561 | AGGTCAAAAA | AGCATTTTGC | GGGGTGCTGG | GATTTTTTAA | TTAAGTATAT | GAGCAATICA |
| 28621 | AGTAACTCTA | CAAGCTTGTC | TAATTTTCT | GGAATTGGGG | TCGGGGTTAT | CCLIACICII |
| 28681 | GTAATTCTGT | TTATTCTTAT | ACTAGCACTT | CTGTGCCTTA | GGGTTGCCGC | CTGCTGCACG |
| 28741 | CACGTTTGTA | CCTATTGTCA | GCTTTTTAAA | CGCTGGGGGC | GACATCCAAG | ATGAGGTACA |
| 28801 | TGATTITAGG | CTTGCTCGCC | CTTGCGGCAG | TCTGCAGCGC | TGCCAAAAAG | GTTGAGTTTA |
| 28861 | AGGAACCAGC | TTGCAATGTT | ACATTTAAAT | CAGAAGCTAA | TGAATGCACT | ACTCTTATAA |
| 28921 | AATGCACCAC | AGAACATGAA | AAGCTTATTA | TTCGCCACAA | AGACAAAATT | GGCAAGTATG |
| 28981 | CTGTATATGC | TATTTGGCAG | CCAGGTGACA | CTAACGACTA | TAATGTCACA | GTCTTCCAAG |
| 20001 | GTGAAAATCG | TAAAACTITT | ATGTATAAAT | TTCCATTTTA | TGAAATGTGC | GATATTACCA |
| 20101 | TGTACATGAG | CAAACAGTAC | AAGTTGTGGC | CCCCACAAAA | GTGTTTAGAG | AACACTGGCA |
| 20161 | CCTTTTGTTC | CACCGCTCTG | CTTATTACAG | CGCTTGCTTT | GGTATGTACC | TIACILIAIC |
| 20221 | TCAAATACAA | AAGCAGACGC | AGTTTTATTG | ATGAAAAGAA | AATGCCTTGA | TTTTCCGCTT |
| 20281 | CCTTCTATTC | CCCTGGACAA | TTTACTCTAT | GTGGGATATG | CGCCAGGCGG | GAAAGATTAT |
| 202/11 | | TTCAAATCAA | ACTITICATION | ACGTTAGCGC | CTGACTTCTG | CCAGCGCCTG |
| 20401 | ΤΔΑΛΟΤΟΤΟΛΟ | TTGATCAAAC | CCAGCTTCAG | CTTGCCTGCT | CCAGAGATGA | CCGGCTCAAC |
| 20161 | CATCECECCC | - 1 αΛ10ΑΩΩ Τ1ΔΑΩΩ1ΔΔ1Δ | ATCGCAACAC | CACTGCTACC | GGACTAAAAT | CTGCCCTAAA |
| 20E21 | AATOGOGOOTTT . | GTTCATGCCT | TTGTCAATGA | CTGGGCGAGC | TTGGGCATGT | GGTGGTTTTC |
| 20501 | TITACCCCAA CATACCCCCTT | ATCTTTCTT | GCCTTATTAT | TATGTGGCTT | ATTTGTTGCC | TAAAGCGCAG |
| 20641 | . CATAGUGUTT 1. ACCCCCCACA | רררררר∆דרד. רררררר∆דרד | ΤΔΤΛΩΩΩΤΔΤ | CATTGTGCTC | AACCCACACA | ATGAAAAAAT |
| Z7041 | . AUGUGUUAGA | COCOCOCATO | AIAGGCIAI | SALIGITO 10 | | |

29701 TCATAGATTG GACGGTCTCA AACCATGTTC TCTTCTTTTA CAGTATGATT AAATGAGACA 29761 TGATTCCTCG AGTCCTTATA TTATTGACCC TTGTTGCGCT TTTCTGTGCG TGCTCTACAT 29821 TGGCTGCGGT CGCTCACATC GAAGTAGATT GCATCCCACC TTTCACAGTT TACCTGCTTT 29881 ACGGATTTGT CACCCTTATC CTCATCTGCA GCCTCGTCAC TGTAGTCATC GCCTTCATTC 29941 AGTTCATTGA CTGGATTTGT GTGCGCATTG CGTACCTTAG GCACCATCCG CAATACAGAG 30001 ACAGGACTAT AGCTGATCTT CTCAGAATTC TTTAATTATG AAACGGATTG TCACTTTTGT 30061 TTTGCTGATT TTCTGCGCCC TACCTGTGCT TTGCTCCCAA ACCTCAGCGC CTCCCAAAAG 30121 ACATATTTCC TGCAGATTCA CTCAAATATG GAACATTCCC AGCTGCTACA ACAAACAGAG 30181 CGATTTGTCA GAAGCCTGGT TATACGCCAT CATCTCTGTC ATGGTTTTTT GCAGTACCAT 30241 TTTTGCCCTA GCCATATACC CATACCTTGA CATTGGTTGG AATGCCATAG ATGCCATGAA 30301 CCACCCTACT TTCCCAGCGC CCAATGTCAT ACCACTGCAA CAGGTTATTG CCCCAATCAA 30361 TCAGCCTCGC CCCCCTTCTC CCACCCCCAC TGAGATTAGC TACTTTAATT TGACAGGTGG 30421 AGATGACTGA ATCTCTAGAT CTAGAATTGG ATGGAATTAA CACCGAACAG CGCCTACTAG 30481 AAAGGCGCAA GGCGGCGTCC GAGCGAGAAC GCCTAAAACA AGAAGTTGAA GACATGGTTA 30541 ACCTGCACCA GTGTAAAAGA GGTATCTTTT GTGTGGTCAA GCAGGCCAAA CTTACCTACG 30601 AAAAAACCAC TACCGGCAAC CGCCTTAGCT ACAAGCTACC CACCCAGCGC CAAAAACTGG 30661 TGCTTATGGT GGGAGAAAAA CCTATCACCG TCACCCAGCA CTCGGCAGAA ACAGAAGGCT 30721 GCCTGCACTT CCCCTATCAG GGTCCAGAGG ACCTCTGCAC TCTTATTAAA ACCATGTGTG 30841 ATCAGTCAGC AAATCTTTGT CCAGCTTATT CAGCATCACC TCCTTTCCCT CCTCCCAACT 30901 CTGGTATTTC AGCAGCCTTT TAGCTGCGAA CTTTCTCCAA AGTCTAAATG GGATGTCAAA 30961 TTCCTCATGT TCTTGTCCCT CCGCACCCAC TATCTTCATA TTGTTGCAGA TGAAACGCGC 31021 CAGACCGTCT GAAGACACCT TCAACCCTGT GTACCCATAT GACACGGAAA CCGGCCCTCC 31081 AACTGTGCCT TTCCTTACCC CTCCCTTTGT GTCGCCAAAT GGGTTCCAAG AAAGTCCCCC 31141 CGGAGTGCTT TCTTTGCGTC TTTCAGAACC TTTGGTTACC TCACACGGCA TGCTTGCGCT 31201 AAAAATGGGC AGCGGCCTGT CCCTGGATCA GGCAGGCAAC CTTACATCAA ATACAATCAC 31261 TGTTTCTCAA CCGCTAAAAA AAACAAAGTC CAATATAACT TTGGAAACAT CCGCGCCCCT 31321 TACAGTCAGC TCAGGCGCCC TAACCATGGC CACAACTTCG CCTTTGGTGG TCTCTGACAA 31381 CACTCTTACC ATGCAATCAC AAGCACCGCT AACCGTGCAA GACTCAAAAC TTAGCATTGC 31441 TACCAAAGAG CCACTTACAG TGTTAGATGG AAAACTGGCC CTGCAGACAT CAGCCCCCCT 31501 CTCTGCCACT GATAACAACG CCCTCACTAT CACTGCCTCA CCTCCTCTTA CTACTGCAAA 31561 TGGTAGTCTG GCTGTTACCA TGGAAAACCC ACTTTACAAC AACAATGGAA AACTTGGGCT 31621 CAAAATTGGC GGTCCTTTGC AAGTGGCCAC CGACTCACAT GCACTAACAC TAGGTACTGG 31681 TCAGGGGGTT GCAGTTCATA ACAATTTGCT ACATACAAAA GTTACAGGCG CAATAGGGTT 31741 TGATACATCT GGCAACATGG AACTTAAAAC TGGAGATGGC CTCTATGTGG ATAGCGCCGG 31801 TCCTAACCAA AAACTACATA TTAATCTAAA TACCACAAAA GGCCTTGCTT TTGACAACAC 31861 CGCAATAACA ATTAACGCTG GAAAAGGGTT GGAATTTGAA ACAGACTCCT CAAACGGAAA 31921 TCCCATAAAA ACAAAAATTG GATCAGGCAT ACAATATAAT ACCAATGGAG CTATGGTTGC 31981 AAAACTTGGA ACAGGCCTCA GTTTTGACAG CTCCGGAGCC ATAACAATGG GCAGCATAAA 32041 CAATGACAGA CTTACTCTTT GGACAACACC AGACCCATCC CCAAATTGCA GAATTGCTTC 32101 AGATAAAGAC TGCAAGCTAA CTCTGGCGCT AACAAAATGT GGCAGTCAAA TTTTGGGCAC 32161 TGTTTCAGCT TTGGCAGTAT CAGGTAATAT GGCCTCCATC AATGGAACTC TAAGCAGTGT 32221 AAACTTGGTT CTTAGATTTG ATGACAACGG AGTGCTTATG TCAAATTCAT CACTGGACAA 32281 ACAGTATTGG AACTTTAGAA ACGGGGACTC CACTAACGGT CAACCATACA CTTATGCTGT 32341 TGGGTTTATG CCAAACCTAA AAGCTTACCC AAAAACTCAA AGTAAAACTG CAAAAAGTAA

| | | 0.4.00707.4.70 | TTA ATOCTOA | CAACTCTAAA | CCATTCCATT | TTACTATTAC |
|------------------|------------|---|-------------------|-------------------|-------------|------------|
| 32401 | TATIGITAGE | CAGGIGIAIC | TIAATGGTGA | CAAGICIAAA | CCATTGCATT | TCACTTCCTC |
| 32461 | GCTAAATGGA | ACAGATGAAA | CCAACCAAGI | AAGCAAATAC | TCAATATCATA | CCTTCTCCTA |
| 32521 | CTGGAACAGI | GGACAATACA | CIAAIGACAA | ATTIGULACE | AATTCCTATA | CTCTTTATTT |
| 32581 | CATTGCCCAG | GAATAAAGAA | ICGIGAACCI | GIIGCAIGII | ATGTTTCAAC | CCACCACATA |
| 32641 | TTCAATTGCA | GAAAATTTCA | AGTCATITI | CATICAGIAG | TATAGCCCCA | AACCTCCCAC |
| 32701 | GCTTATACTA | ATCACCGTAC | CTTAATCAAA | CTCACAGAAC | CCTAGTATTC | AACCIGCCAC |
| 32761 | CTCCCTCCCA | ACACACAGAG | TACACAGTCC | TTTCTCCCCG | GCTGGCCTTA | AACAGCATCA |
| 32821 | TATCATGGGT | AACAGACATA | TTCTTAGGTG | TTATATTCCA | CACGGTCTCC | IGICGAGCCA |
| 32881 | AACGCTCATC | AGTGATGTTA | ATAAACTCCC | CGGGCAGCTC | GCTTAAGTTC | AIGICGCIGI |
| 32941 | CCAGCTGCTG | AGCCACAGGC | TGCTGTCCAA | CTTGCGGTTG | CTCAACGGGC | GGCGAAGGAG |
| 33001 | AAGTCCACGC | CTACATGGGG | GTAGAGTCAT | AATCGTGCAT | CAGGATAGGG | CGGTGGTGCT |
| 33061 | GCAGCAGCGC | GCGAATAAAC | TGCTGCCGCC | GCCGCTCCGT | CCTGCAGGAA | TACAACATGG |
| 33121 | CAGTGGTCTC | CTCAGCGATG | ATTCGCACCG | CCCGCAGCAT | AAGGCGCCTT | GTCCTCCGGG |
| 33181 | CACAGCAGCG | CACCCTGATC | TCACTTAAGT | CAGCACAGTA | ACTGCAGCAC | AGTACCACAA |
| 33241 | TATTGTTTAA | AATCCCACAG | TGCAAGGCGC | TGTATCCAAA | GCTCATGGCG | GGGACCACAG |
| 33301 | AACCCACGTG | GCCATCATAC | CACAAGCGCA | GGTAGATTAA | GTGGCGACCC | CTCATAAACA |
| 33361 | CGCTGGACAT | AAACATTACC | TCTTTTGGCA | TGTTGTAATT | CACCACCTCC | CGGTACCATA |
| 33421 | TAAACCTCTG | ATTAAACATG | GCGCCATCCA | CCACCATCCT | AAACCAGCTG | GCCAAAACCT |
| 33481 | GCCCGCCGGC | TATGCACTGC | AGGGAACCGG | GACTGGAACA | ATGACAGTGG | AGAGCCCAGG |
| 33541 | ACTCGTAACC | ATGGATCATC | ATGCTCGTCA | TGATATCAAT | GTTGGCACAA | CACAGGCACA |
| 33601 | CGTGCATACA | CTTCCTCAGG | ATTACAAGCT | CCTCCCGCGT | CAGAACCATA | TCCCAGGGAA |
| 33661 | CAACCCATTC | CTGAATCAGC | GTAAATCCCA | CACTGCAGGG | AAGACCTCGC | ACGTAACTCA |
| 33721 | CGTTGTGCAT | TGTCAAAGTG | TTACATTCGG | GCAGCAGCGG | ATGATCCTCC | AGTATGGTAG |
| 33781 | CGCGTGTCTC | TGTCTCAAAA | GGAGGTAGGC | GATCCCTACT | GTACGGAGTG | CGCCGAGACA |
| 33841 | ACCGAGATCG | TGTTGGTCGT | AGTGTCATGC | CAAATGGAAC | GCCGGACGTA | GTCATATTTC |
| 33901 | CTGAAGCAAA | ACCAGGTGCG | GGCGTGACAA | ACAGATCTGC | GTCTCCGGTC | TCGTCGCTTA |
| 33961 | GCTCGCTCTG | TGTAGTAGTT | GTAGTATATC | CACTCTCTCA | AAGCATCCAG | GCGCCCCCTG |
| 34021 | GCTTCGGGTT | CTATGTAAAC | TCCTTCATGC | GCCGCTGCCC | TGATAACATC | CACCACCGCA |
| 34081 | GAATAAGCCA | CACCCAGCCA | ACCTACACAT | TCGTTCTGCG | AGTCACACAC | GGGAGGAGCG |
| 34141 | GGAAGAGCTG | GAAGAACCAT | GTTTTTTT | TTTATTCCAA | AAGATTATCC | AAAACCTCAA |
| 34201 | AATGAAGATC | TATTAAGTGA | ACGCGCTCCC | CTCCGGTGGC | GTGGTCAAAC | TCTACAGCCA |
| 34261 | AAGAACAGAT | AATGGCATTT | GTAAGATGTT | GCACAATGGC | TTCCAAAAGG | CAAACTGCCC |
| 34321 | TCACGTCCAA | GTGGACGTAA | AGGCTAAACC | CTTCAGGGTG | AATCTCCTCT | ATAAACATTC |
| 34381 | CAGCACCTTC | AACCATGCCC | AAATAATTTT | CATCTCGCCA | CCTTATCAAT | ATGTCTCTAA |
| 34441 | GCAAATCCCG | AATATTAAGT | CCGGCCATTG | TAAAAAATCTG | CTCCAGAGCG | CCCTCCACCI |
| 34501 | TCAGCCTCAA | GCAGCGAATC | ATGATTGCAA | AAATTCAGGT | TCCTCACAGA | CCTGTATAAG |
| 34561 | ATTCAAAAGC | GGAACATTAA | CAAAAATACC | GCGATCCCGT | AGGTCCCTTC | GCAGGGCCAG |
| 34621 | CTGAACATAA | TCGTGCAGGT | CTGCACGGAC | CAGCGCGGCC | ACTTCCCCGC | CAGGAACCAT |
| 34681 | GACAAAAGAA | CCCACACTGA | TTATGACACG | CATACTCGGA | GCTATGCTAA | CCAGCGTAGC |
| 34741 | CCCGATGTAA | GCTTGTTGCA | TGGGCGGCGA | TATAAAATGC | AAGGTACTGC | TCAAAAAATC |
| 3/12/1 | | TCGCGCAAAA | AAGCAAGCAC | ATCGTAGTCA | TGCTCATGCA | GATAAAGGCA |
| 3/1861 | | GGAACCACCA | CAGAAAAAGA | CACCATTITI | CTCTCAAACA | TGTCTGCGGG |
| 34021 | TTCCTGCATA | AACACAAAAT | AAAATAACAA | AAAAAAAAA | ACATTTAAAC | ATTAGAAGCC |
| 3/1021 | TGTNTTACAA | CAGGAAAAAC | AACCCTTATA | AGCATAAGAC | GGACTACGGC | CATGCCGGCG |
| 350 <u>4</u> 301 | TGACCGTAAA | AAAACTGGTC | ACCGTGATTA | AAAAGCACCA | CCGACAGTTC | CTCGGTCATG |
| 22047 | 100001700 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |

| 35101 | TCCGGAGTCA | TAATGTAAGA | CTCGGTAAAC | ACATCAGGTT | GGTTAACATC | GGTCAGTGCT |
|-------|------------|------------|------------|------------|------------|------------|
| | | | | | GGCGTAGAGA | |
| | | | | | ACACATAAAC | |
| | | | | | CAACATACAG | |
| | | | | | ATTAAAAAAC | |
| | | | | | GTACAGAGCG | |
| | | | | | ACCCAGAAAA | |
| | | | | | CTCAAATCTT | |
| | | | | | AATTCCCAAT | |
| | | | | | GCCCCGCGCC | |
| | | | | | AGGTATATTA | |
| | | | | | | |

FIG.11A-14

